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K-C.1.1# – TIMBER SUBJECT TO AGREEMENT (9/04). In addition, there is within Contract Area an unestimated quantity of:

Species	Product
L, DF, LP, S, AF, WP(Unit 24D)	Sawtimber
Combined Softwoods(Unit 24D)	Non-sawtimber

that shall be Included Timber upon written agreement.

K-C.2# - UTILIZATION AND REMOVAL OF INCLUDED PRODUCTS (4/03). Unless otherwise agreed in writing, or as specified in K-C.2.1.1# - Optional Removal of Non-sawtimber Products, Contractor is required to pay for and remove the following products described in A.2 of the contract:

Sawtimber is the boles of trees meeting Sawtimber Product specifications as listed in A.2 of the contract.

Non-sawtimber is the boles of trees meeting Non-sawtimber Product specifications as listed in A.2 of the contract, but that do not meet the minimum piece specifications for Sawtimber Products. Non-sawtimber removal is only required in Cutting Units **ALL**. Only the volume of non-sawtimber in the cutting units listed above is included in the estimated volume shown in A.2. If the Contractor and the Forest Service agree to remove non-sawtimber from cutting units other than those listed above this non-sawtimber must be measured and paid for at the rates shown in A.4.

K-C.3.0.3# - DEAD TREES (10/04). Notwithstanding the designations for cutting in other provisions of this contract, dead **Western Larch and Douglas-Fir** standing trees over **10 feet** in height and **18 inches** diameter at breast height and dead **N/A** standing trees meeting Utilization Standards stated in A.2 will be left standing in Cutting Unit(s) **ALL**.

Upon agreement by the Forest Service, dead trees may be felled when necessary for safety under the State Safety Code. Unless otherwise agreed in writing, all dead trees which are required to be left standing and are felled for safety reasons shall be left on site.

K-C.3.8# - SPECIES DESIGNATION (2/09). Within the following cutting units shown below, listed species are designated for cutting when they meet (a) utilization standards and (b) are smaller than the stump diameter listed below and shown on the Contract Area Map:

Unit	Designated Species	Maximum Stump Diameter – (Inches)
11, 13	LP, S, AF	NA
3, 3A	DF, LP, S, AF	NA
5, 6, 6B, 7, 9, 9A, 9B, 10, 12, 15, 15A, 15B, 15C, 23, 23A, 24, 24A, 24B, 24C, 24D*, 24E, 23F, 24G, 25, 27	L, DF, LP, S, AF, WP	NA

***Timber Subject to Agreement Unit- K-C.1.1#**

Stump diameter will be measured at **NA** inches above ground level on the uphill side of the tree. A minimum stump height of **NA** inches above ground level on the uphill side shall be left in the units listed above.

In addition, any trees within the cutting unit boundary that are windthrown prior to Contractor's logging in the immediate vicinity which meet Utilization Standards in amounts less than specified in C1.3.3 are designated for cutting.

Trees of the species listed above that are designated to be left standing are marked with a horizontal stripe of **ORANGE** paint at or above eye level, and a stump mark consisting of a horizontal stripe of **ORANGE** paint on the downhill side of the tree at ground level.

In addition to those species listed above, trees marked with a horizontal stripe of **NA** paint at or above eye level, and a stump mark consisting of a horizontal stripe of **NA** paint on the downhill side of the tree at ground level are also designated for cutting.

The boundaries of units are marked on three (3) sides of the cutting unit boundary trees with vertical stripes of **ORANGE** paint extending from diameter breast height (DBH) upwards approximately three (3) feet. The middle stripe of paint faces the cutting unit and the other two face on line with the cutting unit boundary. In addition, each boundary tree has a horizontal stump mark painted on the downhill side of the tree at ground level. Trees used for boundary designation are not to be cut.

Upon agreement with Forest Service, dead trees designated to be left standing may be felled when necessary for safety under the State Safety Code and other dead trees designated in their place.

K-E.2.1.1 - TEMPORARY REDUCTION OF DOWNPAYMENT (8/09). Notwithstanding E.2.1.1, upon the Contractor's written request Forest Service may temporarily reduce the downpayment when Contractor's scheduled operations are delayed or interrupted for 30 or more consecutive days, or the contract term is extended for 30 or more consecutive days for any of the following reasons:

- (1) Forest Service requests or orders Contractor to delay or interrupt operations for reasons other than breach;
- (2) Contractor interrupts or delays scheduled operations to work on a sale designated by the Forest Service as in urgent need of harvesting; or
- (3) An adjustment of the contract term authorized upon a determination of substantial overriding public interest, including a market-related contract term addition, or an urgent removal contract term extension under 36 CFR 223.53.

When Contractor is not cutting or removing timber under contract during a qualifying period of delay, interruption, or extension listed above the downpayment may be reduced to \$1000 or 2 percent of the downpayment amount stated in the contract, whichever is greater. The Contractor must restore the downpayment to the full amount stated in the contract within 15 days from receipt of the bill for collection and written notice from the Contracting Officer that the basis for temporarily reducing the downpayment no longer exists. Contractor shall not cut or remove timber on a contract where the downpayment has been temporarily reduced until the downpayment amount stated in the contract is fully restored.

K-E.2.1.5 - Deposits When Payment Guaranteed (05/10). To the extent payment guarantee is provided under E.3, requirements for advance cash deposits under E.2.1.2 shall be waived for the value of Included Timber removed except for:

- (a) Base Rates,
- (b) associated charges, and
- (c) the value of Included Timber exceeding the sum of stewardship credits that have not been established under E.2.2 for mandatory stewardship projects listed in A.4.3 plus optional stewardship projects listed in A.4.3 authorized by Contracting Officer.

Charges for (a), (b) and (c) shall be waived for not more than a monthly billing period, subject to the provisions of E.4.

K-E.2.2.8# - SLASH DISPOSAL DEPOSIT SCHEDULE (7/13). Contractor shall make a cash deposit for slash disposal activities to be performed by the Forest Service.

Upon completion of skidding activities in each cutting unit, the Contractor shall be billed for the amount(s) shown in the table below.

Cutting Unit Number	Required Deposit(s)
3	\$163.45
3A	\$98.79
5	\$1,113.71
6	\$172.00
6B	\$17.77
7	\$206.11
9	\$201.14
9A	\$46.91
9B	\$93.11
10	\$154.94
11	\$354.65
12	\$515.99
13	\$1,091.67
15	\$32.69
15A	\$32.69
15B	\$65.39
15C	\$65.39
23	\$51.88
23A	\$68.94
24	\$34.11
24A	\$86.00
24B	\$103.06
24C	\$206.11
24E	\$154.94
24F	\$859.27
24G	\$34.11
25	\$825.15
27	\$108.03
Total	\$6,958.00

K-E.4 - PAYMENTS NOT RECEIVED (8/12). (a) Payments are due and payable on the date of issue indicated on the bill for collection. When a payment for timber cut and other charges is not received at the location designated by Forest Service by the date specified in the bill for collection, Contracting Officer will suspend all or any part of Contractor's Operations until payment or acceptable payment guarantee is received. Other charges include, but are not limited to:

- (i) Slash disposal, road maintenance, and contract scaling deposits;
- (ii) Cooperative work at rates established by specific agreement under E.2.1.8;
- (iii) Damages pursuant to J.4;
- (iv) Road use fees;
- (v) Restoration of downpayment pursuant to E.2.2;
- (vi) Periodic payments pursuant to E.2.1.3;
- (vii) Extension Deposits pursuant to E.2.1.7; and
- (viii) Other mandatory deposits.

(b) Failure to pay amounts due by the date specified in the bill for collection shall be considered a breach under J.3. The 30-day notice period prescribed therein shall begin to run as of the end of business on the date specified for receipt of payments. If the performance or payment is guaranteed by surety bond, the surety will receive a copy of the written notification of breach. Demand will be made on the surety or other institution providing the guarantee or bond instrument for immediate payment 10 days after issuance of written notification of the breach.

(c) Pursuant to the Debt Collection Improvement Act of 1996, as amended, if payment is not received by Forest Service within 15 days after the date of issue indicated on the bill for collection:

(i) Simple interest shall be assessed at the Current Value of Funds Rate as established by the Secretary of the Treasury. Interest will begin to accrue as of the date of issue indicated on the initial bill for collection.

(ii) Debtors will be assessed administrative charges, in addition to the delinquent amount due. Administrative charges are those additional costs incurred by the Government in processing, handling, and collecting delinquent debts.

(iii) A penalty charge of six (6) percent per annum will be assessed on any portion of a debt delinquent more than 90 days. This penalty charge is in addition to interest and administrative charges under paragraphs (c)(i) and (c)(ii). The penalty charge shall accrue from the date of issue indicated on the bill for collection and shall be assessed on all outstanding amounts, including interest and administrative costs assessed under paragraphs (c)(i) and (c)(ii).

(iv) Payments will be credited on the date received by the Federal Depository or Collection Officer designated on the bill for collection.

(d) Forest Service remedies for Contractor's failure to make payment for timber cut and other charges when due, except for accrual of interest, suspension of all or any part of Contractor's Operations, and administrative offset, shall be stayed for so long as:

- (i) A bona fide dispute exists as to Contractor's obligation to make such payment and
- (ii) Contractor files and prosecutes a timely Claim.

K-F.1.1.3# - USE AGREEMENT BETWEEN FOREST SERVICE AND OWNER (7/85).

Contractor is authorized to **construct and use the Right-of-Way and Land** subject to the terms and conditions of a **Temporary Land Use Agreement** between Forest Service and Glacier Wilderness Resort, and **Temporary Approach Permit** between Forest Service and **Montana Department of Transportation**. A copy of said Agreements and Permits is available for review in the office of the District Ranger, Hungry Horse Ranger District, Hungry Horse MT, and the Forest Supervisor, Flathead National Forest, Kalispell MT .

K-F.1.2# – USE OF ROADS BY CONTRACTOR (9/04). Contractor's use of existing roads identified on Contract Area Map by the following codes is prohibited or subject to restrictive limitations, unless agreed otherwise:

<u>Code</u>	<u>Use Limitations</u>
X	Hauling prohibited
R	Hauling restricted
U	Unsuitable for hauling prior to completion of agreed reconstruction
P	Use prohibited
A	Public use restriction
W	Regulation waiver

Roads coded A will be signed by Forest Service to inform the public of use restrictions. Contractor's use of roads coded R, A, or W shall be in accordance with the following restrictions:

Restricted Road List

Road Number	Road Name	Termini		Map Legend	Description of Restrictions
		From	To		
1637	Pinnacle Ridge	0.00	End	A	Road closed seasonally to public use.
1638	Paola Creek	1.72	End	A	Road closed yearlong to public use.
1639	Dickey Creek	0.00	End	R	No purchaser use between December 1 and April 15
1640	Essex Creek	0.00	End	R	No purchaser use between December 1 and April 15
11124	Old Hwy 2 East	Tunnel Crk Bridge	.764	X	Hauling Prohibited across Tunnel Crk Bridge
50624	Middle Fork Access	0.00	.356	R	No purchaser use between December 1 and April 15

K-F.1.3# – ROAD COMPLETION DATE (9/04). Construction of Specified Roads shall be completed no later than **September 16, 2014**; except for earlier construction completion dates for roads listed below:

Road Number	Road Name	Station		Completion Date
		From	To	
N/A				

Completion date is binding on the party that constructs road, whether Contractor or Forest Service. Contracting Officer may modify the completion date in writing to conform to the Technical Proposal under G.3.1.1 at the request of Contractor.

When Contractor elects Forest Service construction of Specified Roads shown in contract advertisement, Forest Service may adjust construction completion date when road construction is delayed or interrupted for causes that qualify for an adjustment of the completion date of Forest Service's road construction contract. When qualifying delays or interruptions of road construction occur, Forest Service shall evaluate such occurrences and document any findings. The current status of any adjustment shall be available to Contractor on request. Promptly after the end of Normal Operating Season in which qualifying days occur, Forest Service shall give Contractor written notice of (a) number of qualifying days claimed, and (b) new construction completion dates. After all road construction is complete, Forest Service shall grant Contract Term Adjustment. Such adjustment shall be limited to road completion date delays that occurred during Normal Operating Season.

If Forest Service is responsible for road construction and the actual date of road completion is 1 year or more after the completion date stated above, Contractor may request a rate redetermination under D.3 for remaining volume. Such request must be made within 30 days of notification that road construction has been completed. Upon receipt of such request, Forest Service shall redetermine rates using standard methods in effect on the completion date of road construction. Rates to be established shall apply to all timber removed from Contract Area after the effective date of the rate redetermination.

Forest Service shall in no way be responsible for any delay or damage caused by road contractor in performing the road construction, except such delay as may be the fault or negligence of Forest Service.

When Contractor constructs Specified Roads and requests Contract Term Adjustment, completion dates shall be adjusted by number of days that qualify for such adjustment, provided such qualifying days occur before specified construction completion date. When Contractor desires to construct an alternate facility under F.2.6, Forest Service and Contractor shall agree, in writing, on a construction completion date for alternate facility. Contract Term Adjustment as noted above will apply. Completion date shall be adjusted where a Design Change or physical changes necessitate a modification of Specified Road construction work that increases the scope or

magnitude of the required work.

If Contractor fails to complete construction of any or all Specified Roads by applicable completion date, as adjusted, Contract Term Extension shall not be granted.

As used in this provision, construction of a road is completed when:

(a) Contractor constructs Specified Roads and Forest Service furnishes Contractor with written notice of acceptance under G.3.6 or

(b) Forest Service constructs road and furnishes Contractor with written notice authorizing use of road.

Notwithstanding F.1, Contractor shall not use a road that Contractor has elected for Forest Service to construct, until construction is completed and Forest Service furnishes Contractor with written notice authorizing use of road.

K-F.3.1# – ROAD MAINTENANCE REQUIREMENTS (9/04). Contractor shall maintain roads in accordance with the following Contract Road Maintenance Requirements Summary:

Contract Road Maintenance Requirements Summary

Road	Termini		Miles	Applicable Prehaul Road Maintenance Specifications									
	From	To		T-101	T-103	T-301	T-310	T-506	T-507	T-618	T-619	T-710	
50611	0.0	0.34	0.34										
11120	0.0	0.05	0.05										
11119	0.00	0.07	0.07										
11121	0.00	0.07	0.07										
243	0.00	0.05	0.05										
11124	0.33	0.38	0.05										
1637	0.00	0.11	0.11										
1637	0.11	0.75	0.64										
1638	0.00	0.39	0.39										
1638	0.39	0.67	0.28										
1638	0.67	0.86	0.19										
1638	0.86	1.46	0.60										
1638	1.46	1.80	0.34										
50624	0.00	0.20	0.20										
1639	0.00	0.21	0.21										
1639	0.21	0.55	0.34										
1640	0.00	0.08	0.08										
1640	0.08	0.40	0.32										
1640	0.40	0.98	0.58										
1640	0.98	1.86	0.88										

P = Contractor Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party
Slippery Bill Stewardship

Road	Termini		Miles	Applicable During Haul Road Maintenance Specifications									
	From	To		T-101	T-103	T-301	T-310	T-506	T-507	T-618	T-619	T-710	
50611	0.0	0.34	0.34	P	P	P						D	
11120	0.0	0.05	0.05	P	P				D			D	
11119	0.00	0.07	0.07	P	P				D			D	
11121	0.00	0.07	0.07	P	P				D			D	
243	0.00	0.05	0.05	P	P	P		D	D			D	
11124	0.33	0.38	0.05			P		D	D			D	
1637	0.00	0.11	0.11	P	P	P	D	D	D		D	D	
1637	0.11	0.75	0.64	P	P	P	D	D	D			D	
1638	0.00	0.39	0.39	P	P	P	D	D	D			D	
1638	0.39	0.67	0.28	P	P	P	D	D	D			D	
1638	0.67	0.86	0.19	P	P	P	D	D	D			D	
1638	0.86	1.46	0.60	P	P	P	D	D	D			D	
1638	1.46	1.80	0.34	P	P	P	D	D	D			D	
50624	0.00	0.20	0.20	P	P	P						D	
1639	0.00	0.21	0.21	P	P	P	D	D	D			D	
1639	0.21	0.55	0.34	P	P	P	D	D	D			D	
1640	0.00	0.08	0.08	P	P	P	D	D	D			D	
1640	0.08	0.40	0.32	P	P	P	D	D	D			D	
1640	0.40	0.98	0.58	P	P	P	D	D	D			D	
1640	0.98	1.86	0.88	P	P	P	D	D	D			D	

P = Contractor Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party

Road	Termini		Miles	Applicable Post Haul Road Maintenance Specifications									
	From	To		T-101	T-103	T-301	T-310	T-506	T-507	T-618	T-619	T-710	
50611	0.0	0.34	0.34	P		P							
11120	0.0	0.05	0.05	P									
11119	0.00	0.07	0.07	P									
11121	0.00	0.07	0.07	P									
243	0.00	0.05	0.05	P		P							
11124	0.33	0.38	0.05			P							
1637	0.00	0.11	0.11	P		P							
1637	0.11	0.75	0.64	P		P							
1638	0.00	0.39	0.39	P		P							
1638	0.39	0.67	0.28	P		P							
1638	0.67	0.86	0.19	P		P							
1638	0.86	1.46	0.60	P		P							
1638	1.46	1.80	0.34	P		P							
50624	0.00	0.20	0.20	P		P							
1639	0.00	0.21	0.21	P		P							
1639	0.21	0.55	0.34	P		P							
1640	0.00	0.08	0.08	P		P							
1640	0.08	0.40	0.32	P		P							
1640	0.40	0.98	0.58	P		P							
1640	0.98	1.86	0.88	P		P							

P = Contractor Performance Item D = Deposit to Forest Service D3 = Deposit to Third Party

SPECIFICATION T-101 SURFACE BLADING

DESCRIPTION

1.1 Surface blading is keeping the native or aggregate surfaced road in a condition to facilitate traffic, minimize additional future maintenance, reduce erosion, and provide proper drainage. It includes maintaining the crown, inslope or outslope of the traveled way and shoulders, drainage dips, leadoff ditches, berms, turnouts, removal of minor slides and slumps, and other irregularities that prevent normal runoff from the road surface.

REQUIREMENTS

3.1 Surface blading shall be performed as often as necessary and to the standards required to facilitate traffic and proper drainage.

3.2 The blading shall be performed in such a manner as to preserve the existing cross section and to conserve surface materials. On gravel surfaced roads, the base must not be disturbed and no surface material may be bladed into the ditch or over the road shoulders. Blading of native surface roads shall be performed so no base material under four (4) inches in the greatest

dimension is lost. All ruts, holes, etc., shall be removed by scarifying and/or cutting to the bottom of any surface irregularities. Oversize material brought to the surface in the scarification process shall be removed from the roadway. Surface material which has been displaced to the shoulders, turnouts, outside of curves, etc., shall be brought back so as to leave a uniform depth on the traveled way at completion of blading. Water shall be applied during blading if sufficient moisture is not present to prevent segregation.

3.3 Roadside cut slopes or berms shall not be undercut.

3.4 At intersections, the roadbeds of sideroads shall be graded for a reasonable distance to assure proper blending of the two riding surfaces.

3.5 Drainage dips and leadoff ditches shall be cleaned and continually maintained to conform reasonably to their original constructed lines, grade, and cross section.

3.6 Berms shall be repaired promptly by placing selected material as needed to restore the berm to its original condition.

3.7 Surface blading of native surface roads also includes ditch cleaning, which shall be done in accordance with T-301, Ditch Cleaning.

3.8 All blading operations shall be properly signed in accordance with **G.3.3#** and all applicable State Laws.

SPECIFICATION T-103 DUST ABATEMENT

DESCRIPTION

1.1 Dust abatement consists of road surface preparation and application of materials.

MATERIALS

2.1 Water, bituminous products, lignin sulfonates, chloride products, and other materials may be used for dust abatement. Materials other than water will require approval of the Forest Service and shall meet specifications furnished by the Forest Service.

REQUIREMENTS

3.1 Dust abatement materials shall be applied to the road surface as necessary to control surface loss and provide that vehicles are always intervisible within their stopping sight distance. The average user speed on the road shall be used to determine stopping sight distance. Preparation shall be in accordance with Specification T-101, Surface Blading.

3.2 The rate of application shall be such that the selected material will not run off the surface and cause pollution or unnecessary waste.

3.3 When water is the selected material, it shall be applied as often as necessary to abate dust from all Contractor operations.

a. Dust abatement shall be maintained as needed throughout the duration of operations.

SPECIFICATION T-301 DITCH CLEANING

DESCRIPTION

1.1 Ditch cleaning is removing and disposing of all slough material from roadside ditches to provide an unobstructed waterway conforming reasonably to previous line, grade, and cross section.

REQUIREMENTS

3.1 Slough Material.

A. Native Surfaced Roads. Slough material from ditch cleaning, if suitable, may be placed and blended into the existing road surface or shoulders or placed in a designed berm during surface blading.

B. Aggregate Surface Roads. Slough material from ditch cleaning shall not be mixed with aggregate surfacing or left on the road surface unless otherwise agreed. Material shall be disposed of in an agreed manner at designated locations.

C. Asphalt Surfaced Roads. Equipment, methods, and timing shall be agreed to before start of ditch cleaning operations so as to protect the asphalt pavement. Material shall be disposed of in an agreed manner at designated locations.

SPECIFICATION T-310 MINOR DRAINAGE STRUCTURES

DESCRIPTION

1.1 Minor drainage structures are single passages with maximum waterway opening equivalent to a 78-inch round pipe (87- by 63-inch arch) or multiple passages with maximum, single waterway opening equivalent to a 60-inch round pipe (66- by 51-inch arch). They include overside drains. Maintenance is work performed on inlets, outlets, related channels, existing riprap, trash racks, and drop inlets.

MATERIALS

2.1 All materials used in the maintenance of minor drainage structures shall conform by type and specification to the material in the structure being maintained.

REQUIREMENTS

3.1 All minor drainage structures are to be maintained in accordance with these specifications in the spring following any significant runoff and prior to the beginning of winter storms.

3.2 Clear inlet and outlet channels, inlet trash racks, and drop inlets of loose material that could cause plugging or prevent the free flow of water. Debris shall be disposed of in agreed manner at designated locations.

3.3 If outlet riprap was originally placed to dissipate water energy, it shall be maintained in good condition including the replacement of riprap if necessary.

4.1 Make whatever minor repairs are necessary to ensure the proper functioning of the head walls, aprons, inlet assemblies, overside drains, riprap, trash racks, and other facilities related to the drainage structure.

SPECIFICATION T-506 CLEARING ROADWAY VEGETATION

DESCRIPTION

1.1 This work consists of cutting and disposing of all vegetative growth including trees from the road surface that reduces the operational capability of the road. Vegetation removal is required if the growth of the vegetation during the contract period causes unacceptable reduction of sight distance and operation capability.

REQUIREMENTS

3.1 Vegetative matter on the road surface which reduces sight distance, impedes vehicular travel, or interferes with road maintenance operations such as surface blading and ditch and culvert cleaning shall be removed. Downed timber meeting utilization standards shall be cut in appropriate lengths and decked along the roadside in locations where the traveled way or sight distance will not be impaired.

3.2 Low shrubs and brush which do not restrict sight distance, do not impede road maintenance, and reduce erosion need not be removed if the road surface can be adequately maintained without doing so. Vegetation and nonmerchantable timber removed shall be disposed of by scattering, chipping, hauling to designated disposal areas, or as otherwise agreed upon.

SPECIFICATION T-507 CUTTING ROADSIDE VEGETATION

DESCRIPTION

1.1 This work consists of cutting and disposing of all vegetative growth, including trees from within the roadway that reduce sight distance and operational capability of the road. Vegetation removal is required if the growth of the vegetation during the contract period causes unacceptable reduction of sight distance and operation capability.

REQUIREMENTS

3.1 Vegetative matter within the roadway which reduces sight distance, impedes vehicular travel, or interferes with road maintenance operations such as surface blading and ditch and culvert cleaning shall be removed. Downed timber meeting utilization standards shall be cut in appropriate lengths and decked along the roadside in locations where the traveled way or sight distance will not be impaired.

3.2 Low shrubs and brush which do not restrict sight distance, do not impede road maintenance, and reduce erosion shall not be removed. Vegetation removed shall be disposed of by scattering, chipping, hauling to designated disposal areas, or as otherwise agreed upon.

SPECIFICATION T-618 MAJOR DRAINAGE STRUCTURES

DESCRIPTION

1.1 Major drainage structures are culverts, bridges, and other structures with a minimum waterway opening equivalent to an 84-inch round pipe (95- by 67-inch arch) or multiple passages where the smallest single waterway opening is 66 inches (73- by 55-inch arch). All low water structures are major drainage structures.

Maintenance of these structures includes cleaning inlets, outlets, and related channels, trash racks, delineators, object markers, rails, timber or asphalt running surfaces, bridge inspections, and other work incidental to maintenance of the structure.

MATERIALS

2.1 All materials used in the maintenance of large drainage structures shall conform by type and specification to the material in the structure being maintained.

REQUIREMENTS

3.1 All major drainage structures and related channels except stream channels shall be maintained as early as possible in the spring following any significant runoff and prior to the beginning of winter storms.

3.2 The items listed below shall be accomplished within the scope of bridge maintenance and where applicable to the maintenance of other large drainage structures.

A. Ditch Cleaning, T-301, and Surface Blading, T-101, shall be performed to direct drainage away from the approaches to the structure.

B. Trash racks shall be cleaned, and any logs or drift lodged against piers and abutments shall be removed without causing damage to the structure. Vegetative debris removed shall be treated as agreed.

C. Debris shall be removed from the bridge deck, and deck drains shall be opened.

1. Loose bolts and nuts shall be tightened.

SPECIFICATION T-619 MISCELLANEOUS STRUCTURES

DESCRIPTION

1.1 Maintenance of miscellaneous structures include the maintenance of retaining walls, guard rails, cattleguards, fences, gates, and any other similar structures that have been previously installed to insure the safe and efficient operation of the road.

MATERIALS

2.1 Any materials needed in the maintenance of miscellaneous structures shall be similar in type and quality to the material in the structure being maintained.

REQUIREMENTS

3.1 Guard Rails. Anchors shall be tightened.

3.2 Cattleguards. Tie-in fences shall be sound and secured to the wings. Loose rails shall be welded or bolted back in place. Material deposited into the cattleguard well during operations shall be removed. Drainage into and out of cattleguards shall be maintained.

3.3 Fences. Wire fences shall be tightened if loose. Broken strands of wire or wood railings shall be replaced.

3.4 Gates. Gates shall be properly signed, kept in good repair and made to swing easily. Hinges or latches shall be repaired if not operating properly. Hinges shall be oiled.

SPECIFICATION T-710 TRAFFIC SERVICES

DESCRIPTION

1.1 Traffic service maintenance includes the maintenance of traffic-related regulatory, warning, and directional signs as well as devices such as roadside delineators or markers. It also includes restriping paved surfaces.

MATERIALS

2.1 All sign faces shall be retroreflective sheeting. Sign posts shall be treated. Materials for delineators and markers shall be similar to those in the devices being replaced unless in conflict with the Manual on Uniform Traffic Control Devices. Pavement striping shall be retroreflective and meet the material requirements of specification 634 in "Forest Service Standard Specifications for Construction of Roads and Bridges."

REQUIREMENTS

3.1 A minimum area six (6) feet in diameter around any traffic sign or device shall be kept free of weeds, brush, and limbs. Greater dimensions may be necessary depending on viewing direction.

3.2 Defaced signs shall be repaired using materials in accordance with the Manual on Uniform Traffic Control Devices.

3.3 All traffic control signs and devices that are replaced shall be installed in accordance with the Manual on Uniform Traffic Control Devices.

3.4 All pavement striping shall conform to attached specifications. Pavement striping shall be required when the existing striping is not readily visible both by day and night.

K-F.3.1.6 - SNOW REMOVAL. (4/13) Snow removal shall be done in a manner to preserve and protect the roads, to insure safe and efficient transportation and to prevent unacceptable damage to roads, streams, and adjacent lands.

A. Description. Snow removal work by Contractor shall include:

1. Removal of snow from entire width of road surface including turnouts.
2. Removal of snow slides, minor earth slides, fallen timber and boulders that obstruct normal road surface width including turnouts.
3. Maintenance of drainage so that the drainage system will function efficiently and prevent erosion damage.

B. Performance. Snow removal shall be kept current and performed as often as necessary to insure safe and efficient transportation. Work shall be done in accordance with the following minimum standards of performance.

1. All debris, except snow and ice, that is removed from the road surface and ditches shall be deposited away from stream channels at agreed locations.
2. During snow removal operations, banks shall not be undercut nor shall gravel or other surfacing material be bladed off the roadway surface.
3. Ditches and culverts shall be kept functional during and following road use.
4. Snow berms shall not be left on the running surface of the road. Berms left on the shoulder of road shall be removed and/or drainage holes shall be opened and maintained in them. Drainage holes shall be spaced as needed to obtain satisfactory surface drainage without discharge on erodible fills.
5. Dozers or skidders shall not be used to plow snow on system roads without written approval of Forest Service. If approved, dozers and skidders must be equipped with shoes or runners to keep the plow blade a minimum of two inches above the road surface.
6. Snow removal must be done in such a way as to protect surface water drainage structures and the road surface. Any damage from, or as a result of, Contractor's snow removal work shall be restored in a timely manner at Contractor's expense.

K-F.3.2# – ROAD MAINTENANCE DEPOSIT SCHEDULE (8/12). Other provisions herein notwithstanding, when Forest Service requests payment in lieu of Contractor's performance of road maintenance, Contractor shall make Required Deposits (16 USC 537) for current and/or deferred road maintenance. Such deposits are based on the estimated volume and distance hauled and Contractor's commensurate use of each road listed in the Road Maintenance Plan in K-F.3.1#.

Contractor and Forest Service may agree in writing on adjustment of such rates. If Contractor uses roads under jurisdiction of Forest Service other than those listed in the Road Maintenance Plan, Forest Service shall establish rates commensurate with Contractor's use of such roads.

The Required Deposits for Forest Service work in lieu of Contractor performance are \$ 0.26 per Ton for recurrent maintenance, and \$ N/A per Ton for deferred maintenance.

The following table lists who Contractor will make deposits for road maintenance to, and the rate per unit of measure of the deposit. The Road Maintenance Agreement is available for inspection at the Forest Supervisor's Office.

Deposit Made To	Rate	Unit of Measure
<u>N/A</u>		

K-F.4.1# - CLOSURE TO USE BY OTHERS (3/07).

A. Closure of Roads During Period of Contract. Unless otherwise agreed in writing between Contractor and Forest Service, Contractor shall within 15 days of receipt of notice from Forest Service, install closure devices listed below and close them on roads designated "To Be Closed" on Contract Area Map and listed below to effectively block access to vehicle traffic except that constituting official use. Installation of closure devices shall follow closure details attached hereto and made a part hereof.

Official vehicle traffic shall constitute that use by Contractor and his employees when engaged in contract activities. It shall also include administrative traffic by Forest Service, and other landowners for the administration of their lands. Contractor shall close road as directed by Forest Service at the completion of daily activities or maintain closure after passage of each vehicle. Forest Service will monitor and administer closure activities.

CLOSURE DEVICES					
Road Number	Location	Furnished By	Closure Method	Closure Device Installed By	In Place
1637	At Jct of Rd 1638	FS	Gate	FS	Yes

During the life of this contract, Contractor shall install temporary barricades at locations designated "Temporary activity Barricade" on Contract Area Map and shown below. Temporary barricades shall be installed so that they may be readily opened by Contractor or Forest Service for access to Contract Area in case of fire or other emergency. Official vehicle traffic shall also include administrative traffic by Forest Service and other landowners for the administration of their lands. Contractor shall provide and post approved signs as authorized by Forest Service. Installation of Temporary Activity Barricades shall follow closure details attached hereto and made a part hereof.

During the period **from contract award to contract termination** when Contractor's Operations are in areas otherwise closed to motorized vehicles, Contractor shall not be permitted to hunt, transport hunters, discharge firearms or transport big game animals with vehicles within the closed areas.

TEMPORARY ACTIVITY BARRICADES

Road Number	Location	Closure Method
Unit 11,12 & 13 Temp Rd on existing or new template	Jct of Road 1638	Temporary Gate(Remove gate when activity is complete)
1638	At Rock Barricade on Road 1638	Temporary Gate(Remove gate when activity is complete)
Unit 24E,24F,24G Temp Road on existing template	Jct of Road 1639(2 locations)	Temporary Gates(Remove gate when activity is complete)
Jump Ups	As described by the Sale Administrator	Sign- Berm or gate if used multiple seasons

B. Closure of Roads at End of Contractor's Use. Unless otherwise agreed in writing between Contractor and Forest Service, upon completion of use, Contractor shall effectively close to public use the following roads designated "To Be Closed" on Contract Area Map and listed below. Existing locking closure devices shall be closed and locked as directed by Forest Service. As an element of final road maintenance and environmental or resource protection, the designated closure shall be accomplished by using the methods required for each road as described below:

Closure Location(s)				
Road Number	Location	Closure Method	Furnished By	In Place
Unit 11,12 & 13 Temporary Rd	Jct of Road 1638	Earthen Berm	Purchaser	Yes
1638	MP 1.72	Reinstall Rock Barricade	Purchaser	Yes
Unit 24E,24F, 24G Temp Road on existing template	Jct of Road 1639 (2 locations)	Earthen Berm	Purchaser	Yes
1637	At Jct of Rd 1638	Gate	FS	Yes

K-G.1.0 - PREWORK CONFERENCE (10/04). Annually, prior to commencement of work, a prework conference will be held to discuss contract terms and work performance requirements. Also at this meeting such things as responsibility under OSHA, and procedures for how undesigned timber that may have to be added to the contract (including danger trees) shall be discussed and documented.

The Contractor, or designated representative, will arrange for the meeting with the Contracting Officer.

K-G.2.3 - PROTECTION OF LAND SURVEY MONUMENTS (10/04). Forest Service shall appropriately designate on the ground all known survey monuments including but not limited to horizontal control stations (Triangulation Stations), vertical control stations (Bench Marks), property corner monuments, and all Public Land Survey System monuments. This shall include reference monuments, corner accessories such as bearing trees, line trees and line posts. Identifying signs shall be posted by Forest Service on two sides of each known bearing tree and each line post shall be posted with a metal sign or decal. Line trees may be cut if designated under C.3.

In authorized clearings such as Clearcutting Units and road construction clearings, and in other instances where damage to survey monuments, corners, corner accessories and survey of property line markers is unavoidable, Forest Service shall arrange protective or perpetuative action which does not cause unnecessary delay to Contractor.

Contractor shall protect all known survey monuments, witness corners, reference monuments, bearing trees and line markers against avoidable destruction, obliteration or damage during Contractor's Operations. Additional monuments or objects discovered on the area shall be promptly reported to the other party and shall also be protected. If any known monuments, corners, corner accessories, and survey or property line markers are destroyed, obliterated or

damaged during Contractor's Operations, Contractor shall employ a registered professional land surveyor to reestablish or restore at the same location the monuments, corners, corner accessories or line markers. Such surveyors shall use procedures and monumentation that accords with the Bureau of Land Management Manual of Instructions for the Survey of the Public Lands of the United States for General Land Office surveys and any applicable State statutes concerned with land surveys. Contractor's agent shall record such surveys in accordance with state survey statutes.

K-G.2.4# – SITE SPECIFIC SPECIAL PROTECTION MEASURES (9/04). Special protection measures needed to protect known areas identified on Contract Area Map or on the ground include:

Cultural Resource Protection Measures:

Wildlife and Botanical Protection Measures:

Contractor shall comply with the Northern Continental Divide Grizzly Bear Food Storage and Sanitation Order.

Contractor shall notify Forest Service of any Grizzly Bear sightings, use of the Contract Area, or conflicts with humans immediately after they occur.

If a den, nest site, or other important habitat feature for any threatened, endangered, or sensitive species is discovered within or in close proximity to any treatment unit, project activities will be suspended until the District Wildlife Biologist approves a resumption of activities.

If unknown populations of sensitive plants are found during project implementation, they will be evaluated and protected as necessary to retain population viability.

Cave Resource Protection Measures:

K-G.2.7# - NOXIOUS WEED TREATMENT (3/07). The roads shown in the table below and being used by the Contractor shall be treated with herbicide to remove seed-bearing noxious weeds.

Contractor shall:

A. Include a schedule for herbicide treatment of noxious weeds as part of the Annual Operating Schedule.

B. Treat roads or road segments required to have noxious weeds treated between **June 1 and July 30 or September 1 to September 30**, unless otherwise agreed in writing.

C. Follow the “TECHNICAL SPRAYING SPECIFICATIONS”.

Treatment shall consist of spot applications that target those noxious weeds identified on the State of **Montana** Noxious weed list that occur **from the toe of the fill to the top of the cut, including the running surface and turnouts** on the listed roads. Reasonable care shall be exercised to limit application so that spraying does not contact native forbs, grasses, herbs, and trees.

Road Number(s)	Road Termini MP to MP	Herbicide	Prehaul	Posthaul
243	0.00 - 0.05	See Technical Specifications below	YES	YES
1637	0.00 – 0.75	See Technical Specifications below	YES	YES
1638	0.00 – 1.80	See Technical Specifications below	YES	YES
1639	0.00 – 0.55	See Technical Specifications below	YES	YES
1640	0.00 – 1.86	See Technical Specifications below	YES	YES
11119	0.00 - 0.07	See Technical Specifications below	YES	YES
11120	0.00 - 0.05	See Technical Specifications below	YES	YES
11121	0.00 – 0.07	See Technical Specifications below	YES	YES
11124	0.33 - 0.38	See Technical Specifications below	YES	YES
50611	0.00 - 0.34	See Technical Specifications below	YES	YES
50624	0.00 – 0.31	See Technical Specifications below	YES	YES

K-G.2.7# - NOXIOUS WEED TREATMENT - TECHNICAL SPRAYING SPECIFICATIONS
FLATHEAD NATIONAL FOREST

1. The Purchaser shall give the Forest Service a 48 hour notification prior to spraying.
2. Spraying will be done by a State of Montana licensed commercial applicator, and only by personnel under the direct supervision of the licensed applicator.

Slippery Bill Stewardship

3. The following herbicides and application rates are approved for use, and are the only authorized methods of weed treatment under this contract provision. All use of herbicides and surfactants shall follow EPA label requirements.

Common Name	Trade name(s)	Application Rate (lbs active ingredient/ acre or oz/ac)
2,4-D amine	Clean Crop amine 4	1 Lb. /20 gallons water/acre or 32oz./acre
Clopyralid	Transline	¼ Lb./20 gallons water/acre or 11 oz./acre
Dicamba	Banvel	1 Lb. /20 gallons water/acre or 32oz./acre
Picloram	Tordon 22K	¼ or ½ Lb./20 gallons water/acre or 16 or 32 oz/ac
Aminopyralid	Milestone	0.13—0.18 lb./20 gallons water/acre or 5-7 oz. per acre
Chlorsulfuron	Telar XP	0.09—0.14 lb./20 gallons water/acre or 2-3 oz. per acre

4. For treatments from September 1 to September 30, surfactants that cause herbicide to adhere to the plant (stickers) shall be applied with herbicides.

5. No spraying of **Tordon 22K** will take place within **100** feet of open water and wet areas. Weed infestations within **100** feet of water can only be treated with **Milestone and/or 2,4-D amine** labeled for treatment of aquatics, unless otherwise approved in writing by the Forest Service. **Telar XP** shall only be used on yellow or Dalmatian toadflax. No spray shall come in contact with open water at any time.

6. No spraying shall occur when rain is expected within six (6) hours of completion of the treatment.

7. Nozzles shall be made of stainless steel or ceramic material.

8. All equipment shall be in good mechanical condition and will be inspected prior to work. The spray pattern, application rates, and calibration shall also be checked before beginning the job and thereafter as deemed necessary by the Forest Service.

9. A tight-fitting lid on all spray tanks is mandatory.

10. Mixing, loading, and equipment cleaning shall be done more than 200 feet from private land or open water. Mixing and cleaning water shall come from public or cooperator supplies, and shall be transported to the site in labeled containers separate from water used for other purposes. On-site locations for water drafting must be approved in advance by the Forest Service. Equipment used to draft water from creeks or rivers must be equipped with anti back siphoning devices.

11. Weather conditions shall be monitored before and during all spraying projects. Spraying is NOT allowed when any of the following conditions exist:

Hand-held equipment: temperature greater than 95 degrees F.; humidity less than 20 percent, or wind greater than 5 MPH.

Truck-mounted equipment: temperature greater than 95 degrees F.; humidity less than 20 percent; or wind greater than 5 MPH..

12. Herbicides shall be transported daily to the project site with the following conditions: Transport only the quantity needed for that day's work; transport concentrate containers only in a manner that will prevent spills; and transport spray in a compartment that is isolated from food, clothing, and safety equipment.

13. Mixing shall only occur on site.

14. The Purchaser shall inspect equipment daily for leaks.

15. The Purchaser shall remove all herbicide containers from national forest land and dispose of them in accordance with all local, state, and federal requirements

16. Applicators will complete a daily pesticide application report as required by the Montana Department of Agriculture. **Applicators will use the daily pesticide application report form provided by the Forest Service.** Daily application reports shall be submitted to the Forest Service within 10 days of application.

17. When spraying occurs prior to road reconstruction, road reconstruction will not begin for at least 10 days following herbicide application.

K-G.3.1.6# - LIMITED OPERATING PERIOD (5/05). Except when agreed otherwise in writing, Contractor's Operations shall be limited as follows:

Notwithstanding requirements of K-G.4 – Conduct of Logging:

Unit 5,13- No commercial harvest or fuels reduction activities will occur from April 1 to July 15.

Units 3,3A,7,9,9A,9B,10,11,12,15,15A,15B,15C,23,23A- No commercial harvest or fuels reduction activities will occur from April 1 to June 30.

Units 24,24A,24B,24C,24D*,24E,24F,24G,25,27- No commercial harvest or fuel reduction activities may occur from December 1 through April 15.

***Timber Subject to Agreement Unit- K-C.1.1#**

Units 3,3A,5,6,6B- Commercial harvest/fuel reduction work must be staggered so portions of groomed ski trails within the Units can be operational at all times.

Unit 3A- Commercial harvest/fuel reduction work may only occur when the stream crossing on Great Bear Creek is dry.

In accordance with a 124 Permit from the State of Montana, road construction or reconstruction activities within any flowing stream will be restricted to the period from July 15 through September 30.

Attachment G.3.3

10/01

LOGGING AND MAINTENANCE OPERATIONS SIGNING STANDARDS

All signs must be manufactured & installed as specified in the FHWA "**Manual on Uniform Traffic Control Devices**" (MUTCD) & FS publication "**Standards for Forest Service Signs & Posters**" (EM 7100-15).

SIGN STANDARDS

SHAPE & COLOR: Generally, signs for logging and maintenance operations are either diamond-shaped or rectangular. All signs are **reflective orange background with black legend and border** unless shown otherwise. Handpainted, homemade signs are not legal. Fluorescent paint is not reflectorized.

SUBSTRATE: Sign substrate material may be High Density Overlay (HDO) Plywood, Aluminum, Fiberglass Reinforced Plastic, Corrugated Plastic or Roll-up Fabrics.

SIGN SIZE: Sign size is a factor of speed and MUTCD & FS standards. Where conditions of speed, volume, or special hazard require greater visibility or emphasis, larger signs should be used. Minimum sizes for the most common signs can be found in Figure 4. Refer to the EM-7100-15 for additional sign sizes.

LEGEND: All lettering shall be Series "C" alphabet, conforming to Standard Alphabets for Highway Signs. Letter size is also a function of speed - use letter size and word messages as specified in MUTCD and EM-7100-15.

SIGN PLACEMENT

Signs are to be installed in locations as agreed to in the traffic control plan. All signs are to be removed, covered, or folded when operations are not in progress or the sign message is not applicable. Signs should generally be located on the right-hand side of the roadway. When special emphasis is needed, signs may be placed on both the left and right sides of the road. Sign message shall be clearly visible to road users, mounted on posts or portable sign stands.

LATERAL CLEARANCE

From the edge of the road - 2 foot minimum, where slope limits to less than 6 feet. 6-12 foot preferred.

HEIGHT

Minimum of 7 feet, measured from the bottom of the sign to the near edge of the travelway. The height to the bottom of a supplemental sign mounted below the primary sign will be 6 feet.

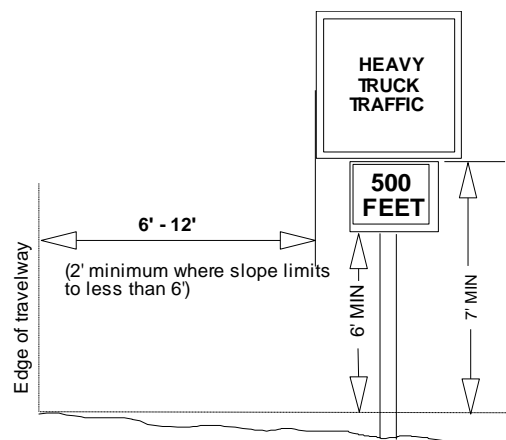


Figure 1: Sign Placement Dimensions

PLACEMENT DISTANCE

Signs must be located 100-500 feet prior to the activity, (both ends if a through road) and maintained at that distance. This distance is based on speed. Refer to Figure 2 , Table II-1, MUTCD, a portion of which is reproduced here, to determine correct placement distance.

Posted or 85 percentile speed MPH	Deceleration to listed advisory speed MPH				
	10	20	30	40	50
20	NA				
25	100				
30	150	100			
35	200	175			
40	275	250	175		
45	350	300	250		
50	425	400	325	225	
55	500	475	400	300	
60	575	550	500	400	300
65	650	625	575	500	375

Figure 2: A Portion of MUTCD TABLE II-1

SIGN SUPPORTS

POSTS: Signs are to be mounted on separate posts. Supplemental signs such as Speed Advisory plates are to be mounted on the same post as the primary sign. *Do not mount signs on trees or other signs.* Posts may be wood, metal, carsonite or similar material. Where sign supports cannot be sufficiently offset from the road edge, supports will meet breakaway standards. Single wood posts with less than 24 square inches do not require breakaway design.

TEMPORARY/PORTABLE SUPPORTS: Portable supports may be used for short-term, short-duration, and mobile conditions. MUTCD defines this time period as one work shift, 12 hours or less. All portable supports must meet MUTCD standards, including breakaway. These must be a minimum of 1 foot above the road surface or more if visibility requires it.

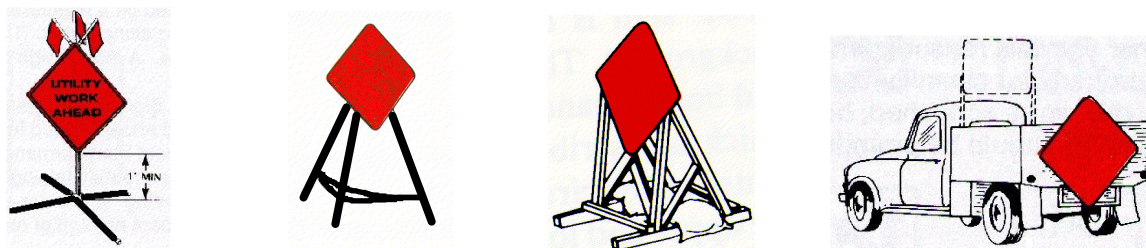


Figure 3: Examples of Temporary/Portable Supports

SIGNS

The following signs meet the intent of Timber Sale Contract Provision G.3.3, SAFETY.

This is not a complete listing of signs that may be needed.



FG20-1-48*



FG20-2-48



FG20-3-42*



FG20-3a-42



FW22-3-30



FW20-1-30*



W21-3-30*



FW21-4a-30



FW11-7-24



W22-1-36*



FW8-6-24



FW11-9a-24



W7-3a-24*



W13-1-18**



W20-7aP-24*



BM-L-O



BM-R-O

Barricade Markers (See MUTCD for length and stripe size)

* Specify Distance

** Specify Speed

Figure 4: Commonly Used Construction and Maintenance Signs

K-G.3.3.2 - SAFETY (TIMBER HAULING) (10/04). Contractor shall secure all products transported by truck with at least two chain or cable wrappers over the load, such wrappers being securely fastened to effectively contain every bolt or log in at least two places.

K-G.3.3.9 - ACCIDENT AND INJURY NOTIFICATION (4/05). Contractor shall notify Forest Service of any lost time personal injury accident or any accident or vandalism resulting in personal property damage over \$400 in value that occurs as a result of or is associated with Contractor's Operations.

Contractor shall notify Forest Service within 8 hours of any personal injury accident. For vandalism and personal property accidents, Contractor shall notify Forest Service at the same time notification is given to the state and local law enforcement authorities.

Contractor shall take all reasonable measures after an accident or vandalism event to preserve the scene of the incident and provide information to facilitate a Forest Service investigation.

The method of notification shall be agreed to in writing at the prework conference required by provision K-G.1.0.

K-G.3.5.1# - WASHING EQUIPMENT (7/07). In order to prevent the spread of noxious weeds into the Contract Area, Contractor shall be required to clean all off-road logging and construction equipment prior to entry on to the Contract Area. This cleaning shall remove all soil, plant parts, seeds, vegetative matter, or other debris that could contain or hold seeds. Only logging and construction equipment so cleaned and inspected by the Forest Service will be allowed to operate within the Contract Area. All subsequent move-ins of equipment to the Contract Area shall be treated in the same manner as the initial move in. "Off-road equipment" includes all logging and construction machinery, except for log trucks, chip vans, service vehicles, water trucks, pickup trucks, cars, and similar vehicles.

Contractor shall employ whatever cleaning methods are necessary to ensure that off-road equipment is free of noxious weeds. Equipment shall be considered free of soil, seed, and other such debris when a visual inspection does not disclose such material. Disassembly of equipment components or specialized inspection tools is not required.

In order to prevent the spread of noxious weed species within the Contract Area, Contractor shall be required to clean all off-road logging and construction equipment that operates in N/A prior to the equipment leaving the N/A. Contractor and Forest Service shall agree on methods of cleaning, locations for the cleaning, and control of off-site impacts, if any.

Unless otherwise agreed, Contractor shall give the forest service at least 24 hours notice when equipment is ready for inspection. Notification will include an agreed upon location where the equipment will be available for inspection by the forest service.

New infestations of noxious weeds, of concern to Forest Service and identified by either Contractor or Forest Service, on the Contract Area or on the haul route, shall be promptly reported to the other party. Contractor and Forest Service shall agree on treatment methods to reduce or stop the spread of noxious weeds when new infestations are found. A current list of noxious weeds of concern to Forest Service is available at each Forest Service office.

K-G.4# - CONDUCT OF LOGGING (10/82). Unless otherwise agreed in writing, silvicultural prescriptions and land management objectives shall be conducted and accomplished by the following requirements, methods and procedures:

Cutting Unit	Conduct of Logging
All Units	<p>Trees shall be felled, insofar as safety permits, to angle in the direction of skidding.</p> <p>Trees designated for cutting and/or logs will be left as rub trees along tractor skid roads/skyline corridors as needed to protect young growth and leave trees.</p>
All Tractor Units	<p>Tractor skid roads will be located and approved in advance of falling.</p> <p>Logs shall be skidded with the leading end free of the ground.</p> <p>Tractor skid roads shall be no less than 75 feet apart, except where converging.</p> <p>Bucking of windfalls and down material is required in advance of construction.</p>
All Skyline Units	<p>Except for lateral yarding, logs shall be yarded with the leading end free of the ground.</p> <p>The skyline logging system shall provide for lateral yarding distance up to 50 feet. The carriage must maintain a fixed position on the skyline while lateral yarding. During the lateral yarding phase, logs shall be yarded along a path, which minimizes damage to residual trees.</p>

All Skyline Units	<p>Skyline corridors shall be located on the ground and approved in advance of felling.</p> <p>Skyline corridors shall have only those trees cut that are necessary to allow the safe free passage of the carriage and turn of logs. Width of the skyline corridors shall be kept to a practicable minimum consistent with the related silvicultural prescription.</p> <p>When setting where it is not possible to suspend the leading end of the log during inhaul, an intermediate support will be required. The support must be sufficient to suspend the leading end of the turn as the carriage traverses the skyline.</p>
Units 7,9A,9B,12,23, 23A,24,24A,24B,24C, 24D*,24E,24F,24G,25, 27	<p>Skidding shall only occur during dry soil conditions as determined by the Forest Service.</p> <p style="text-align: center;">OR</p> <p>Skidding is allowed only over <u>10</u> inches of settled snow and/or frozen ground.</p>
Units 3,3A,5,6,6B,9,10, 11,13,15,15A,15B,15C	<p>Skidding is allowed only over <u>10</u> inches of settled snow and/or frozen ground.</p>

***Timber Subject to Agreement Unit- K-C.1.1#**

K-G.4.1# - SPECIAL FELLING REQUIREMENTS (10/04). Unless otherwise agreed in writing, the following special requirements shall be met in felling timber designated for cutting:

Cutting Unit	Item or Area to be protected	Protection Measure
3,3A,5,6,6B,7,12,24,24A, 24B,24C,24D*,24E,24F,24G, 25,27	Private Property Lines, Private Buildings, Overhead powerlines, Ski Trails, Railroad ROW	Directionally fall trees away from all private property lines, powerlines, ski trails, Railroad Rights of Way

***Timber Subject to Agreement Unit- K-C.1.1#**

K-G.6 - EROSION PREVENTION AND CONTROL (10/04).

Unless otherwise agreed in writing, Contractor shall complete erosion prevention and control work required in section G.6, including Streamcourse protection, within 15 calendar days after completion of skidding and/or yarding operations for each landing.

Designation of on the ground work shall be done as promptly as feasible unless it is agreed that the location of such work can be established without marking on the ground.

During periods of accelerated water runoff, especially during the spring runoff and periods of heavy rainfall, Contractor shall inspect and open culverts and drainage structures, construct special cross ditches for road runoff, and take other reasonable measures needed to prevent soil erosion and siltation of streams.

When operations are active outside the Normal Operating Season defined in A.16, erosion control work will be kept current and will be completed as soon as practicable.

K-G.6.0.1# - EROSION CONTROL SEEDING (3/07). Following completion of skidding and yarding operations in an area, Contractor shall seed and fertilize all exposed areas of raw soil on skid trails, landings, firebreaks, slides, slumps, Temporary Roads and traveled ways of National Forest system roads scheduled for stabilization by Purchaser after operations. Special Provision K-F.4.1.9# - SYSTEM ROAD STABILIZATION contains a list of the roads requiring seeding and fertilizing.

Soil on areas to be seeded shall be left in a roughened condition favorable to the retention and germination of the seed or as specified in Special Provision K-G.6.3.3# - TEMPORARY ROAD, SKID TRAIL/SKID ROAD AND LANDING SCARIFICATION.

Seed and fertilizer shall be spread evenly at the rate of 24 pounds of seed and N/A pounds of fertilizer per acre. When fertilizer and seed are applied in separate operations, the second operation shall be carried out within 72 hours of the first.

Application shall be during the period N/A to N/A and under the above specified conditions unless otherwise approved.

The kinds and amounts of seed to be sown in terms of pure live seed (PLS) shall be:

Species of Seed	PLS Pounds per Acre
Blue wildrye <i>Elymus glaucus</i>	5
Mountain brome <i>Bromus marginatus</i>	9
Bluebunch wheat grass <i>Pseudoroegneria spicata</i>	4
Slender Wheatgrass <i>Elymus trachycaulus</i> ALTERNATIVE Idaho fescue, <i>Festuca idahoensis</i> . In replacement of wheatgrasses	6
Seed Total	24

Contractor shall provide to the Forest Service:

1. Blue tags, or copies of blue tags from each seed lot used in the specified mix. Only certified, blue-tagged seed shall be used. The blue tag represents a field certification and serves as evidence of the genetic purity and varietal identity of the seed contained in the seed lot .
2. Labels which indicate the percentage composition of the various species in the seed mix.
3. Copies of Seed Analysis Reports from a certified seed analyst for each seed lot used in the specified mix. Contractor will obtain this report from the seed provider. Seed Analysis Reports must include at a minimum, content of any noxious weed seeds listed on the current "State of Montana Noxious Weeds List". Only after the Forest Service has verified that this report indicates the seed does not contain any weeds on the current "State of Montana Noxious Weeds List", will the seed be accepted and used.

The following kinds and amounts of standard commercial fertilizer shall be used with guaranteed analysis of contents clearly marked on containers:

Type of Fertilizer	Pounds Per Acre
N/A	

K-G.6.3.2# - TEMPORARY ROAD AND TRACTOR ROAD OBLITERATION (2/02).

Notwithstanding the provisions of G.6.3 and G6.5, unless otherwise agreed, temporary roads accessing all units and tractor roads within Cutting Unit(s) that **require new temporary road** constructed for use with this sale shall be obliterated after they have served the Contractor's purpose. Obliteration shall consist of recontouring road prism including all cut and fill slopes to natural ground contour. Equipment will not be permitted to operate outside the clearing limits. In addition, from **5 to 12** tons per acre of clearing or logging slash, stumps or other woody debris shall be placed and scattered uniformly on the top of the recontoured corridor.

K-G.6.3.3# - TEMPORARY ROAD, SKID TRAIL/SKID ROAD AND LANDING

SCARIFICATION (2/02). Unless waived in writing by the Forest Service on specific roads, skid trails/skid roads or landings, all landings, skid trails/skid roads, and Temporary Roads constructed or used by Contractor shall be scarified by the Contractor following use.

Scarification shall span the width of the compacted areas and shall be done to a depth of not less than **2 inches**, but not to exceed a depth of 14 inches, and must effectively prepare the ground for seeding.

Scarification shall be done during the period **N/A to N/A** unless otherwise approved. No scarification work shall be done during wet weather or when the ground is frozen or otherwise unsuitable.

K-G.6.6.1 - CURRENT OPERATING AREAS (10/04). Unless waived in writing by Forest Service, Contractor shall remove accumulations of slash and logging debris in operating areas from system roads prior to the end of Normal Operating Season. Slash and logging debris in excess of three (3) feet in length and three (3) inches in diameter shall not remain on backslope, in ditches, or on traveled way, shoulders or turnouts. Debris shall be scattered downslope from the roadbed, avoiding any concentrations. When weather permits operation after Normal Operating Season, Contractor shall keep such work on any additional disturbed areas as current as practicable.

K-G.7 - HAZARD REDUCTION AND SITE PREPARATION (3/89). Contractor's timing of product removal, hazard reduction and site preparation shall not unnecessarily delay Forest Service slash disposal, site preparation or reforestation. Contractor shall perform hazard reduction and site preparation work in accordance with the Hazard Reduction and Site Preparation Plan and Map which are attached hereto and made a part hereof. Such work is in addition to Required Deposits for slash disposal.

Hazard Reduction and Site Preparation Plan K-G.7	
All Units	<p>Landing Cleanup -The piling of landings shall be done by an excavator based machine. Piles shall be reasonably compact, free of soil, and be a minimum of <u>6 feet</u> high, to facilitate burning. Piles shall be of a size and location which will not impair road use or result in damage to residual timber. No dozer/skidder piling is allowed.</p> <p>Slash Throwback - Purchaser shall move all logging slash created by Purchaser's Operations that is outside of the unit boundary to locations</p>

	<p>within the boundaries of such units.</p> <p>Fell Damaged Residuals</p> <p>- Purchaser shall fell all species over 2 feet in height not meeting minimum diameter specifications for Included Timber that are damaged beyond recovery by the Purchaser's Operations. Such trees shall be limbed to a stem diameter of approximately 3 inches, at which point the top shall be cut from the remainder of the stem. These stems shall be bucked into lengths shorter than 10 feet.</p>
Units 7,9A,9B,11,12,13,24,24A,24D*	<p>Limb and Top Removal</p> <p>-Purchaser shall leave tops and limbs of felled trees attached to Included Timber and yard them to landings within the entire cutting unit.</p> <p>-Tops and limbs which are lost on the way to the landing site due to normal felling and skidding operations are not required to be yarded.</p>

***Timber Subject to Agreement Unit- K-C.1.1#**

K-G.7.1 - CHANGE IN SLASH TREATMENTS (3/90). Slash treatment measures required in accordance with the Hazard Reduction and Site Preparation Plan and Map may be changed upon written agreement. The Forest Service shall determine the current cost of performing the work to be deleted and the work to be added. When the cost of work deleted exceeds the cost of work added, the agreement shall provide for a lump sum payment to the Forest Service for the amount of the difference.

K-G.7.1.1 - BURNING BY CONTRACTOR (10/79). Contractor shall obtain a written permit from Forest Service before burning any camp refuse, brush, slash or construction debris at any time throughout the year. The terms of the permit will set forth:

- A. Area or location where burning is permitted.
 - B. Material to be burned.
 - C. Safeguards, including help and equipment to control the fire.
1. Special precautions to be taken before burning.

2. Control action needed until the fire is out.

K-G.7.5.3 - TEMPORARY ROAD CONSTRUCTION SLASH DISPOSAL (10/82). Unless agreed otherwise in writing, Temporary Road slash shall be disposed of or treated in accordance with the following:

A. All timber within the road clearing limits which contains a product meeting the minimum piece specifications stated in A.2 shall be felled (not pushed over) and bucked in advance of road construction. All timber shall be felled within the clearing limits whenever it is feasible to do so.

B. Timber within the clearing limits not meeting minimum piece specifications in A.2 and other debris from the clearing and grubbing operations more than three (3) inches in diameter and three (3) feet in length shall either be (a) utilized and removed from Contract Area, (b) burned within the right of way, (c) removed to designated locations shown on Contract Area Map for burying or later burning, (d) buried, (e) processed through a chipping machine, (f) scattered in such a manner as to avoid concentrations of slash and without damaging other trees or resource values, (g) decked, or (h) a combination thereof.

C. All material to be treated or disposed of shall be bucked into lengths not to exceed 20 feet before being piled or buried.

D. If debris is to be burned, burning shall be complete and shall be done at such times and in a manner approved in writing by Forest Service. Residual construction slash from burning shall be buried, scattered or removed to agreed locations.

E. Debris to be buried shall be placed in prepared holes, benches, or trenches at agreed locations and covered with not less than two (2) feet of native soil or rock. Slash and debris may be buried in the roadway providing hauling can be supported and providing there is little probability or hazard of slope failure.

F. If debris is to be chipped, the chips shall be spread over the surface of the ground in such a manner that their loose depth does not exceed six (6) inches. Chips may be mixed with soil within roadway.

G. Slash and debris may be scattered in those situations where the volume of slash or residual slash is relatively light and the adjacent stands of timber are sufficiently open to accommodate the scattering without damage.

H. If material is decked, logs not meeting Utilization Standards that are six (6) inches or more in diameter shall be bucked into lengths not to exceed 32 feet and piled at agreed locations.

K-G.8.0.1 - SCALING (PULP LOGS) (10/04). A pulp log, as shown and specified in A.2, shall be any log or portion of a tree, except western redcedar, dead or alive, not meeting sawlog specifications shown in A.2 and containing at least 50 percent pulpable wood in terms of gross cubic volume. Normal sawlog scaling defects such as stain, shake, checks, crook, sweep, burls, knot clusters, pitch, worm holes, and firm rot are considered pulpable. Fire char is not considered pulpable. Defective logs that will break up under normal debarking operations are not considered pulpable.

Final piece, log, or load volume shall be in terms of gross cubic feet.

When pulp logs are manufactured and marketed in shorter minimum piece lengths than shown in A.2, this shorter pulp log shall be considered as meeting Utilization Standards.

K-G.8.2.2 - PRESENTATION FOR WEIGHT SCALING. (4/13) To facilitate the requirement of G.8.2 that loads be presented so that they may be scaled in an economical and safe manner, and to aid in the accountability requirements of K-G.8.4.0 or K-G.8.4.8, Contractor, unless otherwise agreed in writing, shall:

A. Utilize scales that meet the standard for commercial vehicle scales defined in the National Bureau of Standards Handbook 44, current edition.

B. Weigh all loads on scales currently certified by the State in which weighed. Scales must have a current inspection tag or seal posted which shows the date of the most recent test by the State weights and measures agency. No load shall be presented for weighing that weighs more than the certified capacity of the scales in use. Each load shall be weighed according to the *Instructions for Load Weighing and Accountability* posted at the weighing facility, with the gross and tare weights stamped and recorded by an automatic recording device on the scales. Loads shall be weighed in sequence, with the gross weight obtained first and the tare weight printed within two (2) hours of unloading. In addition to the gross and tare weights, Purchaser shall record the following information on each weight slip:

- a. Sale name
- b. Load Removal Permit number
- c. Date and time weighed

C. Maintain load accountability from the Sale Area to point of weighing. In so doing, the load of products shall remain intact while in transit. Products accidentally lost in transit shall be promptly identified by Load Removal Permit number and sale designation. Purchaser shall, within 48 hours, load out such lost products and present them for weighing or make other arrangements acceptable to Forest Service. Unless otherwise agreed, off-loaded logs will not be stored at State weigh station sites. Logs will be off-loaded onto an empty truck and will have a log load removal permit attached before proceeding from the weigh station. Purchaser is required to notify the Forest Service before off-loading of logs occurs. Off-loaded logs will be delivered immediately to the designated weight scales.

D. Clearly and legibly paint the last three digits of the Load Removal Permit number in **BLACK** paint on the back end of at least three (3) logs of every load transported from the Sale Area.

K-G.8.2.3 - VOLUME DETERMINATION. (4/13) Volume determination shall be based on Weight Measurement unless otherwise agreed. Products shall be weighed on certified scales at locations approved by Forest Service. The weight slip, showing sale name, Load Removal Permit number, date and time weighed, and the gross and tare weights, shall be attached to the Scaler Permit and placed in the location(s) designated by the Forest Service.

In the event of weight scale equipment breakdown or suspension of use for other reasons, hauling shall be suspended until Contractor and Contracting Officer agree to an alternate weighing location.

If Scaler Permits and/or weight slips are not provided for any reason, Forest Service shall use data from the records during the period in which loss occurred to determine weight of load(s). The weights of such load(s) shall be deemed equal to the load with the heaviest net weight presented during the payment period in which the loss occurred.

Payment for lost products may not be required if Forest Service determines that the weight of such lost products involved is small and justified by existing conditions.

K-G.8.4.8 - WEIGHT ACCOUNTABILITY FOR SPLIT PRICING (3/12).

Products sold on a basis other than single price for all products shall be accounted for as follows:

A. Requirements Applicable to Contractor's Accountability Obligations:

- a. Where Contractor's product accountability responsibilities are concerned, all operations performed by Contractor's employees, agents, contractors, subcontractors, their employees or agents, Contractor's obligations shall be the same as if performance is by Contractor.
- b. Contractor shall sort and deck separately the sawtimber and non-sawtimber products at the landing. The non-sawtimber products shall remain on the landing until released for hauling and weighing by the Sale Administrator.

B. Requirements Applicable to Product Removal Book:

1. Forest Service:

- a. Forest Service will issue to Contractor or designated representative(s) serially numbered Product Removal Permit Books for sawtimber products for use only on

this sale. Product Removal Permit Books whether used or unused are accountable property of Forest Service and shall be returned to issuing Ranger District in accordance with instructions contained on the inside cover of each book.

- b. The Product Removal Permits for non-sawtimber products will be issued by the sale administrator as needed to haul these products and are accountable property of the Forest Service. The non-sawtimber products will not be hauled until inspected and released by the sale administrator.

2. Contractor shall require:

- a. All permits be filled out in ink by an individual named in writing other than the truck driver and be attached to load before products are hauled from immediate vicinity of or adjacent to location where loading is done showing date loaded, brand, sale name, and destination where products will be weighed. Permits shall be attached in accordance with instructions on inside cover of Product Removal Permit Book.
- b. Before Sawtimber products are hauled, truck driver will sign legal signature in ink on Woods Permit.
- c. Contractor's Representative or other designated representative will sign legal signature in ink on Woods Permit for non Sawtimber products at time the permits are issued by the sale administrator.
- d. Contractor shall assure that all used Scaler Permits are deposited in accordance with procedures established by the Forest Service.

C. Requirements Applicable to Weight Slips:

a. Contractor shall assure that:

- a. All products removed are presented for weighing at agreed to locations and that gross and tare weights are obtained on certified scales.
- b. That weight slips are attached to proper Scaler Permit and deposited in accordance with procedures established by the Forest Service.

K-G.8.4.9 - ROUTE OF HAUL. (4/13) As part of the annual Operating Schedule, Contractor shall furnish Forest Service both a map and a written general plan for hauling Included Timber from Contract Area. The plan shall set forth:

- A. Designated haul route(s).
- B. Designated weight scales.

Such route of haul shall normally be the shortest, most economical haul route available between the points. Forest Service written approval of the haul route(s) and weight scales is required prior

to commencement of Contractor's hauling operations. The designated weight scales must meet the requirements contained in Standard Provision G.8.1.4 at each weighing facility the Contractor wishes to use.

Upon advance written request, other haul routes may be approved. All products removed from Contract Area shall be transported over the approved designated routes of haul. Contractor shall notify Forest Service when a load of products, after leaving Contract Area, will be delayed for more than 12 hours in reaching weighing location. Such notification shall be made as soon as the Contractor is aware of the delay and include the Load Removal Permit number, weighing destination and rationale for the delay.

Contractor shall require truck drivers to stop, if requested by Forest Service, for accountability checks when products are in transit from Contract Area to the designated weighing location. Purchaser and Forest Service shall agree to locations for accountability checks in advance of haul. Such locations shall be established only in areas where it is safe to stop trucks. Forest Service shall notify Contractor of the methods to be used to alert truck drivers of an impending stop.

K-G.9# – STEWARDSHIP PROJECTS (9/04). Performance of stewardship projects shall be in accordance with the following specifications.

Project Number 001 – Mechanized Fuels Reduction and Slash Treatment- Low to Moderate Intensity

UOM: Acres Estimated Quantity: 100 acres

The cutting units shown on the table below and on the Contract Area Map shall have fuel loading reduced and slash treated. Contractor should be aware that treatment needs are variable across all units, and this variability should be reflected in bid price.

Contractor shall:

1. Include a schedule for fuels reduction and slash treatment as part of the annual Operating Schedule.
2. Treatment shall consist of:
 - a) Slash accumulated at landing sites shall be excavator piled for Forest Service disposal.
 - b) **Mastication** of slash generated by logging activity and downed woody material, leaving a maximum of 12 tons per acre within the cutting unit.
3. Follow guidelines outlined in the technical specifications for the units listed in the table below.

Table 1 - Unit Acres

Unit	Treatment Acres	Cutting Unit Acres
3	5	5
3A	3	3
6B	1	1
23	3	3
23A	4	4
24B	6	6
24C	12	12
24E	9	9
24F	50	50
27	7	7
Total	100	100

FUELS REDUCTION AND SLASH TREATMENT - TECHNICAL SPECIFICATIONS

- I. Fuel reduction and slash treatment activities are subject to limited operating periods; see K-G.3.1.6#.
- II. Slash generated by logging operations shall be masticated. Downed woody material exceeding 12 tons per acre shall be masticated. In addition, slash accumulated at landing sites shall be excavator piled for Forest Service disposal. No slash shall remain outside cutting unit boundaries.
 - a. The required method of treatment of slash generated by logging operations and downed woody material exceeding 12 tons per acre, is mastication.
 - b. Piling at the landing site shall be accomplished with an excavator based machine. No dozer/skidder piling is allowed.
 - c. Masticated activity slash shall be scattered to a loose depth not to exceed **12 inches** above the normal plane of the ground on average over each acre. All material shall be masticated into lengths not to exceed **3 feet** in length.
 - d. Downed woody material remaining in the cutting units after treatment will consist of the following:

An average maximum of 12 tons per acre of the largest diameter and longest length of material available will be left. If available, favor leaving material equal to or greater than 12 inches in diameter. In areas that currently do not have 12 tons per acre, all existing down woody material will be left and no additional material is required to be added.

Decaying or partially decomposed downed woody material that existed prior to fuel treatment activities may be left in place and included in the final desired amount of downed woody material. Downed woody material will be as evenly distributed across the unit as possible. Depth of downed woody material left unmasticated shall not exceed 1 foot on average over each acre. Downed woody fuels transects will be used as the post treatment measurement tool. Post treatment measurements will be accomplished when ground conditions are suitable.

- III. Hardwood trees and shrubs are not designated for removal. There are no restrictions on the amount of **undamaged** hardwoods or shrubs that may remain in the cutting unit after treatment. Hardwood trees over 2 feet in height that are **damaged** beyond recovery, will be slashed by the Contractor, in accordance with K-G.7.

Project Number 002 – Mechanized Fuels Reduction and Slash Treatment- Moderate to High Intensity

UOM: Acres Estimated Quantity: 92 acres

The cutting units shown on the table below and on the Contract Area Map shall have fuel loading reduced and slash treated. Contractor should be aware that treatment needs are variable across all units, and this variability should be reflected in bid price.

Contractor shall:

1. Include a schedule for fuels reduction and slash treatment as part of the annual Operating Schedule.
2. Treatment shall consist of:
 - a) Slash accumulated at landing sites shall be excavator piled for Forest Service disposal.
 - b) **Mastication** of slash generated by logging activity and downed woody material, leaving a maximum of 12 tons per acre within the cutting unit.
3. Follow guidelines outlined in the technical specifications for the units listed in the table below.

Table 1 - Unit Acres

Unit	Treatment Acres	Cutting Unit Acres
5	34	34
6	10	10
25	48	48
Total	92	92

FUELS REDUCTION AND SLASH TREATMENT - TECHNICAL SPECIFICATIONS

- I. Fuel reduction and slash treatment activities are subject to limited operating periods; see K-G.3.1.6#.

- II. Slash generated by logging operations shall be masticated. Downed woody material exceeding 12 tons per acre shall be masticated. In addition, slash accumulated at landing sites shall be excavator piled for Forest Service disposal. No slash shall remain outside cutting unit boundaries.
 - a. The required method of treatment of slash generated by logging operations and downed woody material exceeding 12 tons per acre, is mastication.
 - b. Piling at the landing site shall be accomplished with an excavator based machine. No dozer/skidder piling is allowed.
 - c. Masticated activity slash shall be scattered to a loose depth not to exceed **12 inches** above the normal plane of the ground on average over each acre. All material shall be masticated into lengths not to exceed **3 feet** in length.
 - d. Downed woody material remaining in the cutting units after treatment will consist of the following:

An average maximum of 12 tons per acre of the largest diameter and longest length of material available will be left. If available, favor leaving material equal to or greater than 12 inches in diameter. In areas that currently do not have 12 tons per acre, all existing down woody material will be left and no additional material is required to be added. Decaying or partially decomposed downed woody material that existed prior to fuel treatment activities may be left in place and included in the final desired amount of downed woody material. Downed woody material will be as evenly distributed across the unit as possible. Depth of downed woody material left unmasticated shall not exceed 1 foot on average over each acre. Downed woody fuels transects will be used as the post treatment

measurement tool. Post treatment measurements will be accomplished when ground conditions are suitable.

- III. Hardwood trees and shrubs are not designated for removal. There are no restrictions on the amount of **undamaged** hardwoods or shrubs that may remain in the cutting unit after treatment. Hardwood trees over 2 feet in height that are **damaged** beyond recovery, will be slashed by the Contractor, in accordance with K-G.7.

Project Number 003 – Yarding Unmerchantable Material((YUM) and Slashing in Skyline Units- Moderate to High Intensity

UOM: Acres Estimated Quantity: 39 acres

The cutting units shown on the table below and on the Contract Area Map shall have fuel loading reduced and slash treated. Contractor should be aware that treatment needs are variable across all units, and this variability should be reflected in bid price.

Contractor shall:

1. Include a schedule for fuels reduction and slash treatment as part of the annual Operating Schedule.
2. Treatment shall consist of:
 - a) Slash accumulated at landing sites shall be excavator piled for Forest Service disposal.
 - b) **Slashing** of live and dead conifer trees not meeting merchantability specifications contained in A.2, leaving 30 understory conifer trees per acre, where available.
 - c) **Yarding Unmerchantable(YUM)** downed woody material(excluding slashed trees as described in 2b above), leaving a maximum of 12 tons per acre within the cutting unit.
3. Follow guidelines outlined in the technical specifications for the units listed in the table below.

Table 1 - Unit Acres

Unit	Treatment Acres	Cutting Unit Acres
9A	3	3
9B	6	6
12	30	30
Total	39	39

FUELS REDUCTION AND SLASH TREATMENT - TECHNICAL SPECIFICATIONS

- I. Fuel reduction and slash treatment activities are subject to limited operating periods; see K-G.3.1.6#.
- II. The Contractor shall slash live and dead conifer trees not meeting merchantability specifications set forth in A.2, for all species down to 2 feet in total height, leaving up to 30 understory conifer trees per acre, where available. **In All Units the 30 trees per acre are in addition to leave trees specified in K-C.3.8#.**
 - a. When leaving up to 30 understory conifer trees per acre, the following tree selection criteria shall be met and preference given in the following order.
 1. The trees must be undamaged from Contractor's operation and their crowns must not be in contact with residual overstory trees.
 2. Selected trees shall possess good physical/phenotypical characteristics, specifically those with high crown to total height ratio; good crown coloration and form; and free of insect and disease. The best tree, as described above, is more important than species preference.
 3. Species Preference: Western White Pine, Western Larch, Ponderosa Pine, Douglas-fir, Engelmann Spruce, Subalpine fir, Lodgepole Pine
 4. The distribution of the 30 understory conifer trees across any given acre can consist of multiple clumps, uneven spacing, or a combination thereof.
 - b. Slashed trees shall be limbed as necessary and scattered to reduce concentrations with a depth of no more than **12 inches** above the normal plane of the ground on average over each acre. All material shall be bucked into lengths not to exceed **10 feet** in length.
 - c. No more than **5%** of the leave trees specified in K-C.3.8# in All Cutting Units and the 30 understory trees per acre, shall be damaged beyond recovery by the Contractor's operations.
 - d. Total tree height shall be measured from ground level to the top of the uppermost leader.
 - e. DBH shall be measured from ground level on the uphill side of the tree.

- f. Stumps of trees shall be no greater than 6 inches in height from the ground surface as measured on the uphill side of the tree with no lower live limbs attached to the stump. Stump heights will be as low as practical in winter conditions, inspections will be concurrent with activity.
- III. Downed woody material exceeding 12 tons per acre, shall be yarded to landings(YUM). In addition, downed woody material and slash accumulated at landing sites shall be excavator piled for Forest Service disposal. No slash shall remain outside cutting unit boundaries.
- a. The required method of treatment of downed woody material exceeding 12 tons per acre, is Yarding to the landing(Yarding Unmerchantable Material-YUM).
 - b. Piling at the landing site shall be accomplished with an excavator based machine. No dozer/skidder piling is allowed.
 - c. Downed woody material remaining in the cutting units after treatment will consist of the following:

An average maximum of 12 tons per acre of the largest diameter and longest length of material available will be left. If available, favor leaving material equal to or greater than 12 inches in diameter. In areas that currently do not have 12 tons per acre, all existing down woody material will be left and no additional material is required to be added. Decaying or partially decomposed downed woody material that existed prior to fuel treatment activities may be left in place and included in the final desired amount of downed woody material. Downed woody material will be as evenly distributed across the unit as possible. Depth of downed woody material left unmasticated shall not exceed 1 foot on average over each acre. Downed woody fuels transects will be used as the post treatment measurement tool. Post treatment measurements will be accomplished when ground conditions are suitable.
- IV. Hardwood trees and shrubs are not designated for removal. There are no restrictions on the amount of **undamaged** hardwoods or shrubs that may remain in the cutting unit after treatment. Hardwood trees over 2 feet in height that are **damaged** beyond recovery, will be slashed by the Contractor, in accordance with K-G.7.

Project Number 004 – Mechanized Fuels Reduction, Slash Treatment, and Mechanical Scarification for Site Preparation - Moderate to High Intensity

UOM: Acres Estimated Quantity: 31 acres

The cutting units shown on the table below and on the Contract Area Map shall have fuel loading reduced and slash treated. Contractor should be aware that treatment needs are variable across all units, and this variability should be reflected in bid price.

Contractor shall:

1. Include a schedule for fuels reduction and slash treatment as part of the annual Operating Schedule.
2. Treatment shall consist of:
 - a) Slash accumulated at landing sites shall be excavator piled for Forest Service disposal.
 - b) **Felling and mastication** of live and dead conifer trees not meeting merchantability specifications contained in A.2, leaving 30 understory conifer trees per acre, where available.
 - c) **Mastication** of slash generated by logging activity and downed woody material, leaving a maximum of 12 tons per acre within the cutting unit.
 - d) **Mechanical Scarification** of soil to prepare the site for natural regeneration.
3. Follow guidelines outlined in the technical specifications for the units listed in the table below.

Table 1 - Unit Acres

Unit	Treatment Acres	Cutting Unit Acres
9	13	13
10	10	10
15	1	1
15A	1	1
15B	2	2
15C	2	2
24G	2	2
Total	31	31

FUELS REDUCTION, SLASH TREATMENT, AND MECHANICAL SCARIFICATION -
TECHNICAL SPECIFICATIONS

- I. Fuel reduction and slash treatment activities are subject to limited operating periods; see K-G.3.1.6#.

- II. The Contractor shall fall and masticate live and dead conifer trees not meeting merchantability specifications set forth in A.2, for all species down to 2 feet in total height, leaving up to 30 understory conifer trees per acre, where available. **In All Units, the 30 trees per acre are in addition to leave trees specified in K-C.3.8#.**
 - a. When leaving up to 30 understory conifer trees per acre, the following tree selection criteria shall be met and preference given in the following order.
 1. The trees must be undamaged from Contractor's operation and their crowns must not be in contact with residual overstory trees.
 2. Selected trees shall possess good physical/phenotypical characteristics, specifically those with high crown to total height ratio; good crown coloration and form; and free of insect and disease. The best tree, as described above, is more important than species preference.
 3. Species Preference: Western White Pine, Western Larch, Ponderosa Pine, Douglas-fir, Engelmann Spruce, Subalpine fir, Lodgepole Pine
 4. The distribution of the 30 understory conifer trees across any given acre can consist of multiple clumps, uneven spacing, or a combination thereof.
 - b. No more than **5%** of the leave trees specified in K-C.3.8# in All Cutting Units and the 30 understory trees per acre, shall be damaged beyond recovery by the Contractor's operations.
 - c. Total tree height shall be measured from ground level to the top of the uppermost leader.
 - d. DBH shall be measured from ground level on the uphill side of the tree.
 - e. Stumps of trees shall be no greater than 6 inches in height from the ground surface as measured on the uphill side of the tree with no lower live limbs attached to the stump. Stump heights will be as low as practical in winter conditions, inspections will be concurrent with activity.

- f. Material resulting from mastication shall be scattered to a loose depth not to exceed **12 inches** above the normal plane of the ground on average over each acre. All material shall be masticated into lengths not to exceed **3 feet** in length.

III. Slash generated by logging operations, mechanized fuel reduction activities, and downed woody material exceeding 12 tons per acre, shall be masticated. In addition, slash accumulated at landing sites shall be excavator piled for Forest Service disposal. No slash shall remain outside cutting unit boundaries.

- a. The required method of treatment of slash generated by logging operations, mechanized fuel reduction activities, and downed woody material exceeding 12 tons per acre, is mastication.
- b. Piling at the landing site shall be accomplished with an excavator based machine. No dozer/skidder piling is allowed.
- c. Masticated activity slash shall be scattered to a loose depth not to exceed **12 inches** above the normal plane of the ground on average over each acre. All material shall be masticated into lengths not to exceed **3 feet** in length.
- d. Downed woody material remaining in the cutting units after treatment will consist of the following:

An average maximum of 12 tons per acre of the largest diameter and longest length of material available will be left. If available, favor leaving material equal to or greater than 12 inches in diameter. In areas that currently do not have 12 tons per acre, all existing down woody material will be left and no additional material is required to be added. Decaying or partially decomposed downed woody material that existed prior to fuel treatment activities may be left in place and included in the final desired amount of downed woody material. Downed woody material will be as evenly distributed across the unit as possible. Depth of downed woody material left unmasticated shall not exceed 1 foot on average over each acre. Downed woody fuels transects will be used as the post treatment measurement tool. Post treatment measurements will be accomplished when ground conditions are suitable.

- IV. Hardwood trees and shrubs are not designated for removal. There are no restrictions on the amount of **undamaged** hardwoods or shrubs that may remain in the cutting unit after treatment. Hardwood trees over 2 feet in height that are **damaged** beyond recovery, will be slashed by the Contractor, in accordance with item K-G.7.
- V. Mechanical Scarification for site preparation will consist of the following:

- a. Scarification shall consist of 400 spots per acre uniformly distributed over the unit. A spot shall consist of a minimum 3-foot by 3-foot area of bare mineral topsoil, which is free of any vegetation, duff, slash, or litter. This material shall be removed in such a manner as to prevent/limit soil removal, displacement, or mixing. The area surrounding leave trees, for a distance of 10 feet from the tree stem, is excluded from the workable ground surface for scarification. 1/50th acre(16.7' radius) fixed plots will be used as the post treatment measurement tool.

Project Number 005- Devil Creek Trailhead and Fielding Trailhead Slash Pile Removal & Rehabilitation

All existing and/or partially burned slash piles located at Devil Creek Trailhead and Fielding Trailhead shall be removed and re-piled at the Fielding Gravel Pit. Following removal, all old landing sites shall be scarified and seeded.

UOM: Project Estimated Quantity: 1

Contractor shall:

1. Include a schedule for the project as part of the annual Operating Schedule.
2. Treatment shall consist of:
 - a) All existing and/or partially burned slash piles at old landing sites at Devil Creek Trailhead(approx. 2 piles) and Fielding Trailhead(approx. 3 piles) shall be removed, and re-piled for Forest Service disposal.
 - b) Following the removal of piles, the old pile and landing sites(approx. 5 total) shall be scarified and seeded.
3. Follow guidelines outlined in the technical specifications
4. **Complete this project within the Normal Operating Season of July 15- September 30, 2014.**

SLASH PILE REMOVAL AND REHABILITATION - TECHNICAL SPECIFICATIONS

- I. All existing and/or partially burned slash piles and woody material shall be consolidated and loaded using excavator based equipment.
- II. Consolidated slash and woody material shall be loaded, removed, and hauled to the Fielding Gravel Pit, where it shall be sufficiently re-piled for Forest Service burning/disposal, at a site determined by the Forest Service.

- III. All existing slash piles and woody material at the Fielding Gravel Pit shall also be consolidated and sufficiently re-piled for Forest Service burning/disposal, at a site determined by the Forest Service.
- IV. Following the removal of piles, the old pile and landing sites shall be scarified to a depth of 4", and seeded at a rate of 24 lbs/acre with the seed mix described below. Changes to the seed mix must be agreed to in writing.

Common Name	Species	PLS Pounds per Acre	% by weight
Blue wildrye	<i>Elymus glaucus</i>	5	21
Mountain brome	<i>Bromus marginatus</i>	9	38
Bluebunch wheat grass	<i>Pseudoroegneria spicata</i>	4	15
Slender Wheatgrass ALTERNATIVE Idaho fescue (Native)	<i>Elymus trachycaulus</i> <i>Festuca idahoensis</i> . In replacement of wheatgrasses	6	25
	Total	24	100

Project Number 006 – Noxious Weed Treatment Along Roads

The roads shown in the table below and being used by the Contractor shall be treated with herbicide to remove seed-bearing noxious weeds.

UOM: Miles

Estimated Quantity: 60.66 miles

Contractor shall:

1. Include a schedule for herbicide treatment of noxious weeds as part of the Annual Operating Schedule.
2. Treat roads or road segments required to have noxious weeds treated between **June 1 and July 30**, unless otherwise agreed in writing. Roads segments listed are required to be treated once per year for two years during the term of the contract.
3. Follow the "TECHNICAL SPRAYING SPECIFICATIONS".

Treatment shall consist of spot applications that target those noxious weeds identified on the State of **Montana** Noxious weed list that occur **from the toe of the fill to the top of the cut, including the running surface and turnouts** on the listed roads. Reasonable care shall be exercised to limit application so that spraying does not contact native forbs, grasses, herbs, and trees.

Road Number(s)	Road Termini MP to MP	Herbicide	First year	Second year
569-Skyland	0.00-9.35	See Technical Specifications below	Yes	Yes
1653-East Fork Skyland	0.00-2.40	See Technical Specifications below	Yes	Yes
9634-Granite Creek	0.00-1.085	See Technical Specifications below	Yes	Yes
11038-Granite Creek Trailhead	0.00-0.194	See Technical Specifications below	Yes	Yes
1066-Fielding Camp	0.00-0.60	See Technical Specifications below	Yes	Yes
11143-Fielding Pumphouse and Powerline road	0.00-0.30	See Technical Specifications below	Yes	Yes
1640-Essex Creek	1.86-3.51	See Technical Specifications below	Yes	Yes
1639-Dickey Creek	0.55-3.77	See Technical Specifications below	Yes	Yes
1637-Pinnacle Ridge	0.75-3.50	See Technical Specifications below	Yes	Yes
499-Garry Lookout	0.00-1.90	See Technical Specifications below	Yes	Yes
499A-Garry Lookout A	0.00-0.65	See Technical Specifications below	Yes	Yes
9802-Old Hwy 2	0.00-4.10	See Technical Specifications below	Yes	Yes
10151	0.00-0.50	See Technical Specifications below	Yes	Yes
11222	0.00-0.10	See Technical Specifications below	Yes	Yes
10325-Ryan Road	0.00-1.529	See Technical Specifications below	Yes	Yes
Total	30.33 Miles x 2 times=(60.66 total spray miles)			

NOXIOUS WEED TREATMENT - TECHNICAL SPRAYING SPECIFICATIONS
FLATHEAD NATIONAL FOREST

1. The Purchaser shall give the Forest Service a 48 hour notification prior to spraying.
2. Spraying will be done by a State of **Montana** licensed commercial applicator, and only by personnel under the direct supervision of the licensed applicator.
3. The following herbicides and application rates are approved for use, and are the only authorized methods of weed treatment under this contract provision. All use of herbicides and surfactants shall follow EPA label requirements. Tank mixes are acceptable if they follow label rates and requirements.

Common name	Trade Name(s)	Application Rate (lbs active ingredient/ acre or oz/ac)
2,4-D amine	Clean Crop amine 4	1 Lb. /20 gallons water/acre or 32oz./acre
Clopyralid	Transline	¼ Lb./20 gallons water/acre or 11 oz./acre
Dicamba	Banvel	1 Lb. /20 gallons water/acre or 32oz./acre
Picloram	Tordon 22K	¼ or ½ Lb./20 gallons water/acre or 16 or 32 oz/ac
Aminopyralid	Milestone	0.13—0.18 lb./20 gallons water/acre or 5-7 oz. per acre
Chlorsulfuron	Telar XP	0.09—0.14 lb./20 gallons water/acre or 2-3 oz. per acre

4. No spraying of **Tordon 22K** will take place within **100** feet of open water and wet areas. Weed infestations within **100** feet of water can only be treated with **Milestone and/or 2,4-D amine** labeled for treatment of aquatics, unless otherwise approved in writing by the Forest Service. **Telar XP** shall only be used on yellow or Dalmatian toadflax. No spray shall come in contact with open water at any time.
5. No spraying shall occur when rain is expected within six (6) hours of completion of the treatment.

6. Nozzles shall be made of stainless steel or ceramic material.
7. All equipment shall be in good mechanical condition and will be inspected prior to work. The spray pattern, application rates, and calibration shall also be checked before beginning the job and thereafter as deemed necessary by the Forest Service.
8. A tight-fitting lid on all spray tanks is mandatory.
9. Equipment used to draft water from creeks or rivers must be equipped with anti back siphoning devices.
10. Weather conditions shall be monitored before and during all spraying projects. Spraying is NOT allowed when any of the following conditions exist:
 - Hand-held equipment: temperature greater than 95 degrees F.; humidity less than 20 percent, or wind greater than 5 MPH.
 - Truck-mounted equipment: temperature greater than 95 degrees F.; humidity less than 20 percent; or wind greater than 5 MPH.
11. Herbicides shall be transported daily to the project site with the following conditions: Transport only the quantity needed for that day's work; transport concentrate containers only in a manner that will prevent spills; and transport spray in a compartment that is isolated from food, clothing, and safety equipment.
12. Mixing shall only occur on site.
13. The Purchaser shall inspect equipment daily for leaks.
14. The Purchaser shall remove all herbicide containers from national forest land and dispose of them in accordance with all local, state, and federal requirements
15. Applicators will complete a daily pesticide application report as required by the Montana Department of Agriculture. **Applicators will use the daily pesticide application report form provided by the Forest Service.** Daily application reports shall be submitted to the Forest Service within 10 days of application.
16. When spraying occurs prior to road reconstruction, road reconstruction will not begin for at least 10 days following herbicide application.

Project Number 007 – Noxious Weed Treatment Off Roads

The areas shown in the table below and on the attached project maps shall be treated with herbicide to remove seed-bearing noxious weeds.

UOM: Acres

Estimated Quantity: 15.6 acres

Contractor shall:

1. Include a schedule for herbicide treatment of noxious weeds as part of the Annual Operating Schedule.
2. **Areas numbered 1, 2, 3, 4, 5 must be treated one time in either 2014, 2015, 2016, or 2017 and only between June 1 and July 30.** Changes in these timeframes must be agreed to in writing.
3. Follow the “TECHNICAL SPRAYING SPECIFICATIONS”.

Treatment shall consist of spot applications that target those noxious weeds identified on the State of **Montana** Noxious weed list that occur in the listed and shown areas on the attached project map. Reasonable care shall be exercised to limit application so that spraying does not contact native forbs, grasses, herbs, and trees.

Area Number	Acres	Herbicide	Access
1	5.6	2,4-D amine, Milestone, or Telar XP	Motorized(ATV) & non-motorized
2	2.0	2,4-D amine, Milestone, or Telar XP	Walk-in
3	3.8	2,4-D amine, Milestone, or Telar XP	Walk-in
4	1.1	2,4-D amine, Milestone, or Telar XP	Motorized (ATV)
5	3.1	2,4-D amine, Milestone, or Telar XP	Motorized(ATV)
Total	15.6		

NOXIOUS WEED TREATMENT - TECHNICAL SPRAYING SPECIFICATIONS
FLATHEAD NATIONAL FOREST

1. The Purchaser shall give the Forest Service a 48 hour notification prior to spraying.
2. Spraying will be done by a State of **Montana** licensed commercial applicator, and only by personnel under the direct supervision of the licensed applicator.
3. The following herbicides and application rates are approved for use, and are the only authorized methods of weed treatment under this contract provision. All use of herbicides and surfactants shall follow EPA label requirements. Tank mixes are acceptable if they follow label rates and requirements.

Common name	Trade Name(s)	Application Rate (lbs active ingredient/ acre or oz/ac)
2,4-D amine	Clean Crop amine 4	1 Lb. /20 gallons water/acre or 32oz./acre
Clopyralid	Transline	¼ Lb./20 gallons water/acre or 11 oz./acre
Dicamba	Banvel	1 Lb. /20 gallons water/acre or 32oz./acre
Picloram	Tordon 22K	¼ or ½ Lb./20 gallons water/acre or 16 or 32 oz/ac
Aminopyralid	Milestone	0.13—0.18 lb./20 gallons water/acre or 5-7 oz. per acre
Chlorsulfuron	Telar XP	0.09—0.14 lb./20 gallons water/acre or 2-3 oz. per acre

4. **Use of dye is required in Areas 1, 2, 3, 4, 5**, unless otherwise agreed to in writing.
5. No spraying of **Tordon 22K** will take place within **100** feet of open water and wet areas. Weed infestations within **100** feet of water can only be treated with **Milestone and/or 2,4-D amine** labeled for treatment of aquatics, unless otherwise approved in writing by the Forest Service. **Telar XP** shall only be used on yellow or Dalmatian toadflax. No spray shall come in contact with open water at any time.
6. No spraying shall occur when rain is expected within six (6) hours of completion of the treatment.
7. Nozzles shall be made of stainless steel or ceramic material.

8. All equipment shall be in good mechanical condition and will be inspected prior to work. The spray pattern, application rates, and calibration shall also be checked before beginning the job and thereafter as deemed necessary by the Forest Service.

9. A tight-fitting lid on all spray tanks is mandatory.

Equipment used to draft water from creeks or rivers must be equipped with anti back siphoning devices.

11. Weather conditions shall be monitored before and during all spraying projects. Spraying is NOT allowed when any of the following conditions exist:

Hand-held equipment: temperature greater than 95 degrees F.; humidity less than 20 percent, or wind greater than 5 MPH.

Truck-mounted equipment: temperature greater than 95 degrees F.; humidity less than 20 percent; or wind greater than 5 MPH.

12. Herbicides shall be transported daily to the project site with the following conditions: Transport only the quantity needed for that day's work; transport concentrate containers only in a manner that will prevent spills; and transport spray in a compartment that is isolated from food, clothing, and safety equipment.

13. Mixing shall only occur on site.

14. The Purchaser shall inspect equipment daily for leaks.

15. The Purchaser shall remove all herbicide containers from national forest land and dispose of them in accordance with all local, state, and federal requirements

16. Applicators will complete a daily pesticide application report as required by the Montana Department of Agriculture. **Applicators will use the daily pesticide application report form provided by the Forest Service.** Daily application reports shall be submitted to the Forest Service within 10 days of application.

17. When spraying occurs prior to road reconstruction, road reconstruction will not begin for at least 10 days following herbicide application.

Project Number 008- Seeding After Noxious Weed Treatment

Area 2 and Area 3 from Project 007 shall be seeded following Noxious Weed Treatment.

UOM: Acres

Estimated Quantity: 5.8 acres

TECHNICAL SPECIFICATIONS:

Contractor shall:

1. Seed Areas 2 and 3 from Project Number 007. These are the off-road meadows in the Fielding area that shall be hand-sprayed for noxious weeds between June 1 and July 30, as part of Project 7. All areas within the boundaries of Area 2 and Area 3 that are treated with herbicide shall be seeded. Total seeded acreage is 5.8 acres.
2. Broadcast seeding shall be at a rate of 24 lbs/acre with the seed mix described below. Changes to the seed mix must be agreed to in writing.

Common Name	Species	<i>PLS Pounds per Acre</i>	<i>% by weight</i>
Blue wildrye	<i>Elymus glaucus</i>	5	21
Mountain brome	<i>Bromus marginatus</i>	9	38
Bluebunch wheat grass	<i>Pseudoroegneria spicata</i>	4	15
Slender Wheatgrass	<i>Elymus trachycaulus</i>	6	25
ALTERNATIVE Idaho fescue (Native)	<i>Festuca idahoensis. In replacement of wheatgrasses</i>	4	
Total		24	100
Total lbs of seed(5.8 ac. x 24lbs/ac)_		139.2	

3. Seeding will occur **no sooner than 60 days** after the last herbicide treatment described in Project 005. Seeding will **not occur before August 15, and must be finished before September 20, 2016**. Depending on the timing of accomplishment of Noxious Weed Treatment in Areas 2 and 3, contractor may have only 5 days to accomplish seeding, following the required 60 day wait.

4. No motorized equipment may be used to access the areas for seeding.

Project Number 009- Road Maintenance BladingUOM: MilesEstimated Quantity: 269.52 miles

The following roads shall be maintenance bladed once per year in years 2015, 2016, and 2017, for a total of three(3) bladings per road/road segment. Bladings must occur between May 15 and September 30 of each year.

Road	Name	Termini		Miles	Lanes	Surface	2015	2016	2017
		From	To						
569	Skyland	0.00	9.51	9.51	1	Nat	Yes	Yes	Yes
1653	E Fork Skyland	0.00	2.50	2.50	1	Nat	Yes	Yes	Yes
9634	Granite Creek	0.00	1.1	1.1	1	Nat	Yes	Yes	Yes
60053	Geifer Creek Rd.	0.00	1.36	1.36	1	Nat	Yes	Yes	Yes
1640	Essex Creek	0.00	3.51	3.51	1	Nat	Yes	Yes	Yes
1639	Dickey Creek	0.00	3.77	3.77	1	Nat	Yes	Yes	Yes
1638	Paola Creek	0.00	1.72	1.72	1	Nat	Yes	Yes	Yes
1637	Pinnacle Ridge	0.00	3.50	3.50	1	Nat	Yes	Yes	Yes
10325	Ryan Road	0.00	1.50	1.50	1	Nat	Yes	Yes	Yes
2937	Platte Road	0.00	0.35	0.35	1	Nat	Yes	Yes	Yes
2937A	West Platte	0.00	1.48	1.48	1	Nat	Yes	Yes	Yes
497	Desert	0.00	9.01	9.01	1	Nat	Yes	Yes	Yes
497A	Emery/Desert Cr.	0.00	3.49	3.49	1	Nat	Yes	Yes	Yes
546	Emery Creek	0.00	4.79	4.79	1	Agg	Yes	Yes	Yes
2861R	Colorado R	0.00	1.62	1.62	2	Nat	Yes	Yes	Yes
5301	Abbot Bay	0.00	1.06	1.06	1	Nat	Yes	Yes	Yes
2808	Horse Lake	0.00	0.71	0.71	1	Nat	Yes	Yes	Yes
896	Firefighter	0.00	0.65	0.65	1	Nat	Yes	Yes	Yes
10805	Coram Wrk Center	0.00	0.53	0.53	1	Nat	Yes	Yes	Yes
895H	Beta Creek	0.00	11.84	11.84	1	Nat	Yes	Yes	Yes
895A	Doris Creek	0.00	3.82	3.82	1	Nat	Yes	Yes	Yes
895B	Lost Johnny	0.00	5.37	5.37	1	Nat	Yes	Yes	Yes
895C	Wounded Buck	0.00	1.54	1.54	1	Agg	Yes	Yes	Yes
1633	Clayton Creek	0.00	2.77	2.77	1	Nat	Yes	Yes	Yes
2817	Doe/Clayton Cr.	8.06	10.58	2.52	1	Nat	Yes	Yes	Yes
38	S. Fork Flathead	2.78	12.60	9.82	2	Agg	Yes	Yes	Yes

Total Road Miles(89.84) x 3 years= **269.52 Total Road Maintenance Blading miles**

SPECIFICATIONS FOR SURFACE BLADING

DESCRIPTION

Surface blading is keeping the native or aggregate surfaced road in a condition to facilitate traffic, minimize additional future maintenance, reduce erosion, and provide proper drainage. It includes maintaining the crown, inslope or outslope of the traveled way and shoulders, drainage dips, leadoff ditches, berms, turnouts, removal of minor slides and slumps, and other irregularities that prevent normal runoff from the road surface.

REQUIREMENTS

The blading shall be performed in such a manner as to preserve the existing cross section and to conserve surface materials. On gravel surfaced roads, the base must not be disturbed and no surface material may be bladed into the ditch or over the road shoulders. Blading of native surface roads shall be performed so no base material under four (4) inches in the greatest dimension is lost. All ruts, holes, etc., shall be removed by scarifying and/or cutting to the bottom of any surface irregularities. Oversize material brought to the surface in the scarification process shall be removed from the roadway. Surface material which has been displaced to the shoulders, turnouts, outside of curves, etc., shall be brought back so as to leave a uniform depth on the traveled way at completion of blading. Water shall be applied during blading if sufficient moisture is not present to prevent segregation.

Roadside cutslopes or berms shall not be undercut.

At intersections, the roadbeds of sideroads shall be graded for a reasonable distance to assure proper blending of the two riding surfaces.

Drainage dips and leadoff ditches shall be cleaned and continually maintained to conform reasonably to their original constructed lines, grade, and cross section.

Berms shall be repaired promptly by placing selected material as needed to restore the berm to its original condition.

Any sidecast material shall not be deposited in live water body.

Sections of roads with ditch shall be crowned (4% from centerline).

Sections of roads without ditch shall be insloped or outsloped (2% to 4%).

All blading operations shall be properly signed in accordance with **G.3.3#** and all applicable State Laws.

K-H.2 - NORMAL PRECAUTIONS (2/02). Specific fire precautionary measures are set forth below. Upon request of Forest Service, Contractor shall permit and provide an individual to assist in periodic testing and inspection of required fire equipment. Contractor shall promptly remedy deficiencies found through such inspecting and testing.

The following requirements shall apply during the period stated in A.12 and during other such periods as specified by Forest Service.

A. Fire Extinguishers and Tools Required with Equipment. Each unit of powered equipment used in connection with this contract shall be equipped with serviceable tools and fire extinguishers acceptable to Forest Service as follows:

1. STATIONARY EQUIPMENT. Examples include yarders, log loaders, Hahn Harvester, stroke delimbers, roadside/landing based processors, whole tree chippers, rock crusher, asphalt plant, or other equipment working at fixed locations such as a landing or rock crushing site.

One - Fire extinguisher, dry chemical type of not less than 2.5-pound capacity with 4 B.C. or higher rating.

One - 5-gallon standard galvanized metal, fiber glass or rubberized backpack water container, with hand pump attached, to be filled at all times.

Weatherproofed tool box marked "FIRE ONLY," equipped with a hasp, kept sealed, and containing:

One - Axe, double bit, 3.5#

Two - Shovels (round point #0 lady or equal)

Two - Pulaskis

The tool box shall be mounted on equipment, if feasible, unless another location is agreed to in writing. The tool box shall be within 100 feet of the designated machine at all times when operating. Only one (1) tool box is required at each active fixed location site.

2. MOBILE EQUIPMENT. Examples include crawler tractors, rubber-tire skidders, soft-track skidders, forwarders, feller-bunchers, feller-processors, excavators, front-end loaders, back-hoes, scrapers, and motor graders.

One - Fire extinguisher, dry chemical type of not less than 2.5-pound capacity with a 4 B.C. or higher rating.

One - Shovel (round point #0 lady or equal). For equipping mobile equipment, an acceptable substitute is a "D-handle" round point shovel with a minimum 27-inch handle and a minimum 8- by 11-inch blade.

One - Axe, double bit, 3.5#, or one pulaski.

3. SUPPORT EQUIPMENT. Examples include trucks, low-boys, busses, pickups, panels, automobiles, service trucks, or similar equipment used in transporting logs, people, equipment, and/or materials.

One - Fire extinguisher, dry chemical type of not less than 2.5-pound capacity with 4 B.C. or higher rating

One - Shovel (round point #0 lady or equal)

One - Axe, 2# or over, 26-inch minimum length, or one pulaski

One - Bucket or similar water container (at least 1-gallon capacity)

4. POWER SAWS

One - Shovel (round point #0 lady or equal). Shovel shall be with gas containers and/or no more than 100 feet distance from where sawyer is working.

One - Fire extinguisher, containing not less than eight (8) ounces of extinguisher fluid or a dry chemical powder type of not less than one (1) pound capacity. The extinguisher shall be carried by the operator at all times.

Any fueling or refueling of a power saw shall only be done in an area which is free of or which has first been cleared of all material capable of carrying fire; such power saw shall be moved at least 10 feet from place of fueling before starting.

B. Fire Tools on Contract Area. Contractor shall furnish and maintain in serviceable condition, in quantities and at locations to be designated by Forest Service, tool boxes, fire tools and other fire equipment to be used only for suppressing forest fires. Each tool box shall be weatherproofed and marked "TOOLS FOR FIRE ONLY" and kept sealed. These requirements are in addition to fire tool requirements for mobile, stationary, support or power saw equipment.

1. Special tool caches shall not be required when less than 20 people are employed on Contract Area, excluding logging truck drivers.

2. Operations employing more than 20 individuals on Contract Area, excluding truck drivers, shall furnish a tool cache with a minimum of one serviceable tool per person in the following configuration:

Axe, double bit, 3.5#, 10%

Shovels (round point #0 lady or equal), 45%

Pulaskis, 45%

C. Spark Arresters. Each internal combustion engine shall be provided with a spark arrester or spark arresting device approved by Forest Service. Exceptions where Forest Service may approve mufflers or other equipment in lieu of spark arresters qualified and rated under Forest Service standard 5100-1a are: (a) small multi-position engines, such as chain saws, shall meet Society of Automotive Engineers J335b standards, (b) passenger-carrying vehicles and light trucks may have baffle-type muffler with tail pipe, (c) heavy-duty trucks may have a vertical stack exhaust system with muffler, provided the exhaust stack extends above the cab of the vehicle, (d) an exhaust driven turbocharger is considered to be a satisfactory spark arrester. Internal combustion engine exhaust systems, arresters and other devices shall be properly installed and maintained.

D. Blasting. Fuse or prima cord shall not be used unless authorized in writing by Forest Service, with special precautions stated.

E. Smoking. Smoking shall not be permitted within logging operations except on surfaced or dirt roads, at landings, within closed vehicles, in camps or at other posted places. Smoking shall not be permitted while working or traveling on foot, within or through Contract Area.

F. Precautions for Stoves. Stovepipes on all temporary buildings, trailers, and tents using wood-burning stoves shall be equipped with roof jacks and serviceable spark arresters of mesh with openings no larger than 5/8 inch. All stovepipes, inside and out, shall not be closer than two (2) feet from any wood or other flammable material or one (1) foot if the combustible material is protected by a metal or asbestos shield.

G. Debris Around Buildings. The grounds around buildings, tents and other structures shall be kept free of flammable material for a distance of at least 15 feet from the wall of such structures.

H. Storage of Petroleum and Other Highly Inflammable Products. Gasoline, oil, grease, or other highly flammable material shall be stored either in a separate building or at a site where all combustible debris and vegetation is cleared away within a radius of 25 feet. Fire extinguishers and/or sand barrels may be required at such locations specified by Forest Service when unusually hazardous conditions exist.

I. Debris Burning and Warming Fires. Burning permits shall be required throughout the year for all debris burning fires. Lunch and warming fires may be allowed in fireproofed areas during periods of low fire danger as specified in the fire plan. Such fires shall not be left unattended.

J. Cable Logging. All tail blocks and corner blocks shall be of an accepted haulback design which prevents line fouling and used with line guards. Such blocks shall be located to prevent cables from rubbing against trees, snags, down logs or rock when operating.

Areas adjacent to blocks shall be cleared of flammable material within a 5-foot radius. One (1) shovel and one (1) pulaski shall be maintained within 10 feet of each block.

K. Emergency Measures. Additional measures and/or other special requirements necessary during periods of critical fire-weather conditions shall be included in the fire prevention and suppression plan.

L. Welding. Welding and use of cutting torches or cutoff saws will be permitted only in areas that have been cleared or are free of all material capable of carrying fire. Flammable debris and vegetation must be removed from within a minimum 10-foot radius of all welding and cutting operations. A shovel and a 5-gallon standard backpack water container filled and with handpump attached shall be immediately available for use in the event of a fire start.

K-H.2.1 - PUMP AND TRAILER (7/71). Contractor shall provide at a location satisfactory to Forest Service, a serviceable truck or trailer equipped with a firefighting tanker unit to be kept ready for instant use for suppressing forest fires. The unit shall consist of a tank of not less than 100-gallon capacity upon which shall be mounted a live hose reel or live hose basket with 250 feet of a least 3/4-inch I.D. heavy-duty rubber hose; a portable or power takeoff pump with discharge capacity of at least 10 gallons per minute at 150 P.S.I. pressure. Gear type pumps shall be provided with a bypass or pressure relief valve so the hose nozzle may be shut while the pump is operating. Each tanker unit shall have a hose nozzle of the shut-off type, adjustable for straight stream, spray or fog, at least 12 feet of 1-inch suction hose with an intake screen, an additional 250 feet of 3/4-inch heavy-duty rubber hose or 1-inch cotton jacket rubber-lined or linen hose to be carried on the unit for use as needed. Tools, adapters, accessories and fuel necessary to operate the pump and truck or trailer shall be provided. If a trailer is used, a serviceable vehicle with the proper trailer tow hitch shall be located at a point satisfactory to Forest Service. Where water is available, a supply sufficient for rapidly filling the water tank shall be provided at one or more accessible points along or adjacent to the main truck roads.

K-I.2.1.2 - MARKET-RELATED CONTRACT TERM ADDITION (11/08). The term of this contract may be adjusted when a drastic reduction in wood product prices has occurred in accordance with 36 CFR 223.52. The Producer Price Index used to determine when a drastic reduction in price has occurred is stated in A.20. Contractor will be notified whenever the Chief determines that a drastic reduction in wood product prices has occurred. If the drastic reduction criteria specified in 36 CFR 223.52 are met for 2 consecutive calendar quarters, after contract award date, Contracting Officer will add 1 year to the contract term, upon Contractor's written request. For each additional consecutive quarter such a drastic reduction occurs, Contracting Officer will, upon written request, add an additional 3 months to the term during Normal Operating Season, except that no single 3-month addition shall extend the term of the contract by more than

one year. Contracting Officer must receive Contractor's written request for a market-related contract term addition before the expiration of this contract.

No more than 3 years shall be added to a contract's term by market-related contract term addition unless the following conditions are met:

- (i) The contract was awarded after December 31, 2006; and
- (ii) A drastic reduction in wood product prices occurred in at least ten of twelve consecutive quarters during the contract term, but not including the quarter in which the contract was awarded.

For each qualifying quarter meeting the criteria in paragraphs (i) and (ii) of this provision, the Forest Service will, upon the Contractor's written request, add an additional 3 months during the normal operating season to the contract, except no single 3-month addition shall extend the term of a contract by more than 1 year.

In no event shall a revised contract term exceed 10 years as a result of market-related contract term addition.

Additional contract time may not be granted for those portions of the contract that have a required completion date or for those portions of the contract where Contracting Officer determines that the timber is in need of urgent removal or that timber deterioration or resource damage may result from delay.

K-I.6.8# – USE OF TIMBER (Option 1) (9/04).

(a) This contract is subject to the Forest Resources Conservation and Shortage Relief Act of 1990, as amended (16 USC 620, *et seq.*).

(b) Except for **NONE** determined pursuant to public hearing to be surplus, unprocessed Included Timber shall not be exported from the United States nor used in direct or indirect substitution for unprocessed timber exported from private lands by Contractor or any person as defined in the Act (16 USC 620e).

(c) Timber in the following form will be considered unprocessed:

(i) Trees or portions of trees or other roundwood not processed to standards and specifications suitable for end product use;

(ii) Lumber, construction timbers, or cants intended for remanufacturing not meeting standards defined in the Act (16 USC 620e); and

(iii) Aspen or other pulpwood bolts exceeding 100 inches in length.

(d) Unless otherwise agreed in writing, unprocessed Included Timber shall be delivered to a domestic processing facility and shall not be mixed with logs intended for export.

(e) Prior to award, during the life of this contract, and for a period of 3 years from Termination Date, Contractor shall furnish to Forest Service, upon request, records showing the volume and geographic origin of unprocessed timber from private lands exported or sold for export by Contractor or affiliates.

(f) Prior to delivering unprocessed Included Timber to another party, Contractor shall require each buyer, exchangee, or recipient to execute an acceptable agreement that will:

(i) Identify the Federal origin of the timber;

(ii) Specify domestic processing for the timber involved;

(iii) Require the execution of such agreements between the parties to any subsequent transactions involving the timber;

(iv) Require that all hammer brands and/or yellow paint must remain on logs until they are either legally exported or domestically processed, whichever is applicable; and

(v) Otherwise comply with the requirements of the Act (16 USC 620d).

(g) No later than 10 days following the execution of any such agreement between Contractor and another party, Contractor shall furnish to Forest Service a copy of each such agreement. Contractor shall retain, for 3 years from Termination Date, the records of all sales, exchanges, or dispositions of all Included Timber.

(h) Upon request, all records dealing with origin and disposition of Included Timber shall be made available to Contracting Officer.

(i) For breach of this Subsection, Forest Service may terminate this contract and take such other action as may be provided by statute or regulation, including the imposition of penalties. When terminated by Forest Service under this Subsection, Forest Service will not be liable for any Claim submitted by Contractor relating to the termination.